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## Highlights of National Agricultural Library Activities Through June 1993

[The following updates not previously reported in *ALIN* were taken from the document distributed to participants in the USAIN/NAL meetings at ALA and SLA in June 1993. Some sections update items previously covered in NAL's *Annual Report for 1992*, published in June 1993.]

### NAL Involved in Strategic Planning

NAL has initiated a strategic planning process that will help guide library operations into the next century. During the past several months, several activities have occurred related to this process. Under the technical guidance of the Office of Management Studies of the Association of Research Libraries, a half-day orientation meeting was held for all NAL staff. This was followed by a three-day retreat in which about 35 NAL staff members were introduced to the planning process.

In April, the NAL Planning Study Group (the steering committee) was named. In addition, all NAL staff were encouraged to volunteer to serve on work groups dealing with "vision," "history," internal situation, "external situation," and "communications." About half of NAL's staff, representing all branches and levels of management, volunteered for the work groups.

The Vision Work Group developed scenarios describing possible futures for NAL, assessed users' reactions to the scenarios and drafted a "vision statement" for NAL.

The History Work Group identified important historical documents and produced a summary sheet of major trends, issues, and patterns in NAL's development.

The Current Internal Situation Work Group identified all studies from the past five years that assessed the internal operations of NAL, determined where there were gaps, and gathered information to fill the gaps.

The External Situation Work Group did an inventory of user studies and other studies describing NAL's external environment. The group assessed what NAL users want, with a goal of identifying external opportunities and threats to NAL's future.

The Communications Work Group is keeping NAL staff informed about the overall workings of the planning process.

Additional groups to work on key

result areas identified by these work groups will be named later in the summer. Throughout this planning process, NAL welcomes ideas and comments from anyone with an interest in the future of the library.

### Food Irradiation Evaluation Study Funded

NAL received funds in 1993 to begin an evaluation study on providing international access to food irradiation materials. NAL will convert an NAL-produced food irradiation CD-ROM to another software package improving its usability and will employ a food irradiation expert to select documents for future electronic storage. Germany and France are interested in providing documents and databases to NAL so that NAL will become the international center for food irradiation information. Additional funding for this project has been provided by USDA's Food Safety and Inspection Service. NAL is attempting to obtain additional funding for this project from the Food and Agricultural Organization of the United Nations.

### NAL Participates in National Cataloging Program

NAL has been selected as a new participant in the National Coordinated Cataloging Program (NCCP). NCCP is a cooperative cataloging program of the Library of Congress (LC) in which selected libraries produce full, high-quality cataloging for the LC database and bibliographic utility (OCLC). NAL will begin full participation in 1993. In addition, NAL con-

### NAL Strategic Planning Effort Seeks Assistance

Interested in assisting NAL? NAL is engaged in a strategic planning effort and is looking for volunteers to help critique its draft vision statement. If you are interested in participating and can spare an hour or so, please contact Janice Kemp (Phone: 301-504-5834; Internet: [jkemp@nalusda.gov](mailto:jkemp@nalusda.gov)) for further details. There will also be information available on the NAL bulletin board, ALF (301-504-6510).

Since the review will take place during the month of August, we will need to have your expression of interest by August 16 in order to take advantage of your input.

tinues to be an active participant with LC in the National Coordinated Cataloging Operations (NACO), the Cooperative Online Serials Program (CONSER), and the Cooperative Subject Cataloging Program (CSCP).

## NAL Establishes Electronic Media Issues Committees

In an effort to address issues associated with information stored on electronic media, NAL established a committee to study access, storage, and collection maintenance of electronic resources. To reach NAL's goal of providing users with "seamless" access to individual works regardless of the work's storage medium, the committee determined that existing policies and procedures needed to be reviewed and revised. The committee formed separate subcommittees to examine specific issues and will provide recommendations on NAL policy and procedures for dealing with the issues.

Subjects to be looked at by subcommittees include:

- Electronic form as alternative format to printed version of NAL publications.
- Electronic journals.
- Original texts and reproductions of print documents disseminated on CD-ROM or alternate electronic media.
- Preservation issues for optical media/electronic media.
- Electronic research databases and electronic data accompanying printed matter.

A final report on electronic media issues will be produced by the committee this summer.

## National Agricultural Text Digitizing Program Continues

NAL's ongoing National Agricultural Text Digitizing Program (NATDP) continues to move ahead. NATDP began as a "project" in 1987 as a cooperative study by NAL and over 40 land-grant university libraries. Since then, NAL has evaluated the usefulness of optical scanning and optical character recognition in the library environment, and land-grant libraries have evaluated four CD-ROM data-

bases and many retrieval software products.

An Evaluation Study Final Report has been completed and published, officially ending the pilot study. NATDP became a fully operational "program" in January 1992, working in cooperation with the United States Agricultural Information Network (USAIN). As a program, NATDP will continue to serve as a resource for the agricultural community, while it moves forward with an aggressive digitizing effort.

The new program, after an extensive evaluation, has licensed state-of-the-art retrieval software, called Windows Personal Librarian from Personal Library Software of Rockville, Maryland. The first disc to be issued using the new software was "Agronomy Journal, Volumes 1-16." Produced in cooperation with the American Society of Agronomy, it contains volumes 1 through 16 of the *Agronomy Journal*, and covers the years 1907 through 1924. Another 6,500 pages worth of volumes are being scanned, and are expected to be produced on CD-ROM in late 1993.

A second disc, entitled AQUACULTURE II, was completed in late 1992. It contains over 6,500 pages of full text and images from selected non-copyrighted reference materials on aquaculture.

A third disc containing the papers of George Washington Carver has also been produced. A microfilm collection of Carver's written materials from Tuskegee University was the focus of efforts by NAL to test the feasibility of converting microfilm to electronic page images that can be accessed by microcomputer. NAL scanned several reels of Carver's papers optically, converting them to electronic images, and made the papers available on CD-ROM for use by agricultural and research libraries worldwide. The libraries will evaluate the effectiveness of this system for making scientific information more accessible.

Next in production will be a disc on Food Irradiation. Containing approximately 5,100 images, this is a reissue of a CD-ROM previously published using TextWare Plus retrieval software. The new disc will run under the same state-of-the-art retrieval software used for other NATDP products, and the images on the disc will be in a non-

proprietary TIFF format. Bibliographic records on the new disc have been enhanced also. The disc is expected in the summer of 1993.

## Electronic Information Study Funded

NAL received funds in FY 1993 to initiate an evaluation study on developing structures for managing electronic information in agriculture. A number of electronic information provisional models will be evaluated. USDA materials will be the primary focus of the study.

In the first phase, NAL will evaluate its internal policies and procedures to determine what changes are needed to facilitate acquisition, storage, and access for electronic materials.

In phase two, NAL will work with the USDA Publications Office to facilitate electronic dissemination by USDA. This will include an examination of Standardized Generalized Mark-up Language (SGML) in the production of electronic information.

Phase three will focus on using Internet to disseminate agricultural information. A key component of this phase will be to establish a prototype Agricultural Network Information Center (AgNIC) to experiment with the concept of a distributed discipline-oriented information center which is currently funded by the National Science Foundation.

## ISIS Info Station Project Begins

NATDP staff have created a multimedia database containing full text, images, and sound which resides on a NeXT workstation. Through the use of "InfoStation" software developed by VTLS, the database is linked to NAL's integrated library system, ISIS, to provide users access to full text, images, and sound enhancements of publications the bibliographic information of which is contained in ISIS. Library patrons will be able to search on ISIS, and then press a function key to pull up the full documents. The database, which currently has 8,000 pages, will contain 10,000 pages when completed.

(See Highlights on page 18)



**Statement by Elaine M. Albright**  
**Chair, Legislative and Government Committee**  
**United States Agricultural Information Network (USAIN)**  
**before**

**The Agriculture, Rural Development, Food and Drug Administration**  
**and Related Agencies Subcommittee on Appropriations**

**April 1, 1993**

Mr. Chairman and Committee members, I am Elaine Albright, Dean of Cultural Affairs and Libraries at the University of Maine. I also serve as the Chair of the Legislative and Government Committee of the United States Agricultural Information Network (USAIN). I am requesting a budget increase of \$4 million for the National Agricultural Library (NAL) in Fiscal Year 1994.

The United States Agricultural Information Network is a relatively new organization established in 1988. USAIN provides a forum for agricultural issues, takes a leadership role in formulating national policy related to agricultural information and makes recommendations to the National Agricultural Library. As our name implies, we are a "network" of agricultural information specialists for corporation libraries, state land-grant universities, and state and federal government agencies. We work closely with the National Agricultural Library to share, preserve, and improve access to agricultural information throughout the nation.

The National Agricultural Library has experienced a static and, therefore, decreasing budget in the last few years. With rising costs of books, journals, programs, and services, this static budget means NAL is falling well behind in its ability to support research and development by agricultural researchers in this country. The cost of library materials, especially journals, has increased by an average of 15% per year. Though NAL's book and journal materials budget has allowed for some inflation moneys over the years, the library has only been able to remain static and, in some years, has even had to reallocate its resources to remain within its allocated budget. Since it costs 15% to remain static, I am requesting your support of a budget increase that recognizes this high inflation and that also includes a sum to reinstate canceled journal subscriptions and allow purchase of NEW information. NAL must not only maintain its collection, but also grow as the information resources available continue to multiply. If our nation of researchers cannot find out what is happening every day, we will lose our edge as the world leaders in agricultural development.

The National Agricultural Library has pilot tested the conversion of a few of its unique and valuable of materials



photo: J. Swab

Elaine M. Albright

into electronic format to make them more readily accessible to land-grant universities and researchers around the country and the world. NAL, like other national libraries, has provided leadership to convert information on paper to digital formats thereby allowing remote access and fast document delivery to anyone, no matter what their location or resource base. NAL's leadership in this highly sophisticated and critical area is being jeopardized by insufficient budget for personnel and state-of-the-art computer equipment. USAIN asks your financial support for these projects by making them a strong 1994 budgetary priority.

Another important concern to NAL and agricultural researchers is the preservation of the world's best agricultural collection. NAL's existing collection, which often con-

tains the *only* copy of information in the world, is fast deteriorating due to the environmental conditions and the chemical composition of the paper these materials were printed on. While the Library of Congress and National Library of Medicine have well funded preservation programs, the National Agricultural Library has *no preservation budget* and cannot begin to address this problem. It is not much to ask that \$1 million be set aside to begin the preservation of the enormous investment already made to build the present NAL collection.

The last initiative I will address is NAL's library networking program. In recognition that neither the Library of Congress, National Library of Medicine, nor the National Agricultural Library will be able to respond to *all* the information needs of researchers, NAL has again provided leadership for land-grant libraries to participate in programs that share local resources with researchers world-wide. Most research libraries, also faced with static or decreasing budgets, have become more provincial in defining their service constituencies at a time when sharing resources may be the only logical alternative. More than ever before, it is imperative the NAL expand its networking efforts to guarantee the use of all the nations' resources for the agricultural community.

Thank you for your attention and responsiveness to USAIN's request for an increase in the National Agricultural Library's 1994 budget.



## News Notes

### NAL Names First Private Farmland Information Center

The National Agricultural Library has selected American Farmland Trust (AFT) to operate the nation's first Farmland Information Center. AFT, a national farmland conservation group based in Washington, D.C., will work with NAL's Alternative Farming Systems Information Center (AFSIC) to create an electronically based farmland information storage and retrieval system that is accessible to the public. AFT's research and education facility in De Kalb, Illinois, will administer the new center.

Farmland information centers were authorized by the Farmland Protection Policy Act of 1981. That measure committed the Federal Government to safeguarding the nation's agricultural land resources against unnecessary

conversion to other uses and charged the centers with collecting and distributing information on farmland loss and protection.

According to AFSIC Coordinator Jane Gates, the designation of AFT as a Farmland Information Center will aid in farmland conservation and protection "by providing quick and easy access to comprehensive information on U.S. agricultural land resources."

"Having this access will give the farmers, scientists, and policy-makers involved in farmland conservation a better understanding of the issue," Gates said.

As a Farmland Information Center, AFT will collect and distribute information on the types, classifications, and locations of farmland, soils, and related natural resources; urban development and growth patterns affecting agricultural land use and its impact on the environment; planning and other tools for farmland protection; and the economic, social, and environmental costs of protecting farmland. Founded in 1980, AFT already has a large collection of information on agricultural land

resources.

NAL's Alternative Farming Systems Information Center was established by Congress to encourage research, education, and information delivery about farming systems that preserve the natural resource base while maintaining economic viability. AFSIC provides information on farming methods that maintain the health and productivity of natural resources, as well as that of U.S. farming.

For additional information contact Jane Gates at:

Phone: (301) 504-6559;

TTY: (301) 504-6856

FAX: (301) 504-6409

Internet: [jgates@nalusda.gov](mailto:jgates@nalusda.gov)

Or write to:

Jane Gates, Coordinator  
Alternative Farming Systems  
Information Center  
National Agricultural Library,  
Room 304

10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

Some details of the new center were decided at an April 16, 1993, meeting NAL Director Joseph H. Howard had with Edward Thompson, Jr. Director of Public Policy at the American Farmland Trust in Washington D. C., and Ann Sorenson, Director, Center for Agriculture in the Environment at De Kalb, a joint venture of the American Farmland Trust and the Northern Illinois University. Other NAL participants were: Jane Gates, AFSIC; Keith Russell, Associate Director for Public Services; and Robyn Frank, Head, Information Centers Branch. (See Photo below left.)

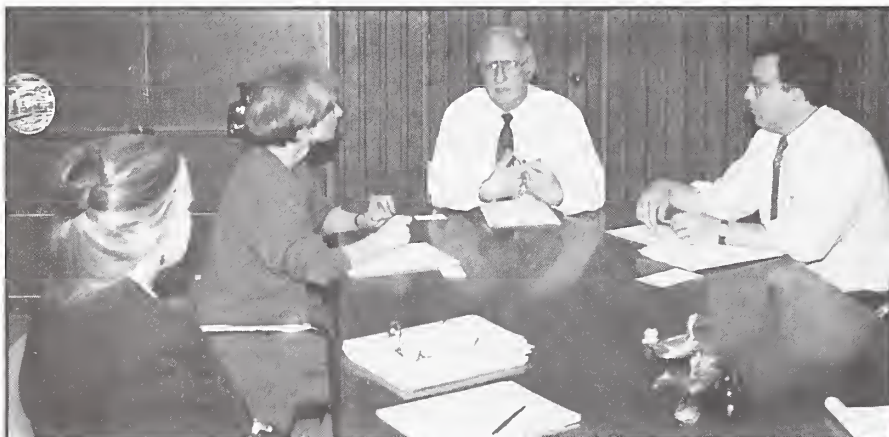


photo: J. Swab

Among participants at the Farmland Information Center meeting were (l-r) Jane Gates, Ann Sorenson, Joseph Howard, and Edward Thompson.

### NAL Now Accepts Reference Requests over Internet

People worldwide now have computer access to reference services of the National Agricultural Library through the Internet telecommunications system of the National Science Foundation. On May 1, NAL's Reference Section began accepting requests



for reference services over the Internet. The Internet address to reach NAL Reference is: [agref@nalusda.gov](mailto:agref@nalusda.gov)

NAL's Reference Section provides reference and information assistance nationally and internationally. Services are provided to federal, state, and local government researchers, scientists, and officials; university and college professors, researchers, and students; private scientific, business, and agricultural organizations; the general public; and foreign government agencies.

When introducing the new service, Keith Russell, NAL's Associate Director for Public Services, indicated that the NAL Internet mailbox is screened for reference requests daily and requests are assigned to an NAL reference librarian for response. "In most cases, requests for bibliographic information are searched on NAL's bibliographic database, AGRICOLA, which contains 3 million citations for agricultural materials worldwide," Russell said. He added that "comprehensive searches" may require NAL to charge a user fee.

Comprehensive searches are those that require NAL to search commercial online databases and that exceed a \$25.00 charge to fill, or those that require more than one hour of the NAL librarian's time (charged at \$11.00 per hour). User fees are assessed only upon prior agreement with the user and are only charged for work over the one-hour limit.

Further information on accessing NAL through Internet, on user fees, or on NAL publications is available by contacting:

Reference Branch, Room 111  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351  
Telephone (301) 504-5204  
TTY: (301) 504-6856  
FAX: (301) 504-7098;  
Internet: [jforbes@nalusda.gov](mailto:jforbes@nalusda.gov)



## New Publications of Note

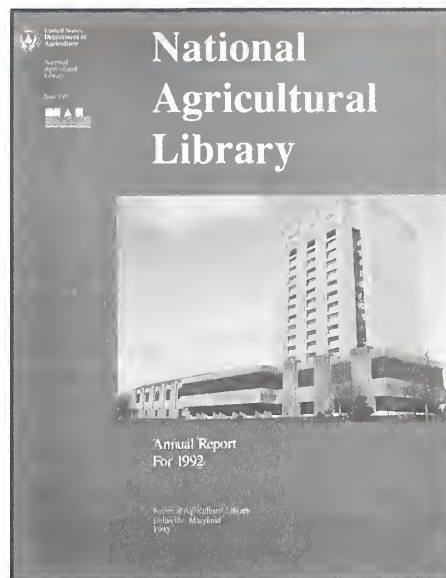
## NAL Annual Reports Available

The National Agricultural Library *Annual Report for 1992* is now available. The 57-page report highlights 76 programs and activities of the library in the areas of services, collaborations with other agencies and institutions, technology, and responding to USDA initiatives and agricultural priorities, and provides related statistical data in tables and graphs.

Copies of the reports for 1989, 1990, and 1991 are also still available.

To obtain a copy of the current or previous reports, send a request with a self-addressed label to:

Shirley Evans, Secretary  
Public Affairs, Room 204  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705-2351



## NAL Bibliography Lists U.S. Farm Policy Articles

Citations on 285 recent articles dealing with U.S. policy on agriculture are covered in a new bibliography from the National Agricultural Library: "U.S. Farm Policy, January 1991 - February 1993," *Quick Bibliography*, 93-21. From the 1990 Farm Bill to worldwide trends affecting U.S. agriculture, the bibliography lists articles on many recent policies shaping U.S. agriculture.

The bibliography's compiler, Mary Lassanyi, Coordinator of the Agricultural Trade and Marketing Information Center, indicated the bibliography will be a valuable resource to those involved in research or other aspects of U.S. farm policy. "Items included in the bibliography cover food safety, hunger, foreign aid, forestry...nearly

## ERRATA

The following errors have been noted in the *National Agricultural Library. Annual Report for 1992*, published in June 1993. Please correct your copy.

"Table 3 - Technical Services Division Statistics" on page 51:

On the first line, "Titles Cataloged by NAL," the figure for 1991 should read: 21,887 (not 1,887).

Also in "Table 3" on page 51:

On the tenth line, "Abstracts," the figure for 1992 should read: 27,595 (not 81,804).

every issue facing U.S. agriculture today," Lassanyi said. "In these articles are contained the thoughts and ideas of some of the most respected agricultural minds in the world."

Citations in the bibliography were taken from NAL's AGRICOLA bibliographic database that contains 3 million citations to agricultural literature. Most items listed in the bibliography are available from NAL.

To obtain a copy of the bibliography, send a self-addressed label with the request to:

*Agricultural Trade & Marketing  
Information Center  
National Agricultural Library,  
Room 304  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351  
Telephone: (301) 504-5509  
TTY: (301) 504-6856  
FAX: (301) 504-6409  
Internet:  
mlassanyi@nalusdda.gov*

## NAL Reports Aid U.S. Hardwood Industry

The Technology Transfer Information Center (TTIC) of the National Agricultural Library has produced a series of reports to help the U.S. hardwood industry deal with some of the most perplexing problems associated with harvesting and milling hardwood. Specifically, the four reports offer procedures for detecting "wetwood" in trees, logs, and boards; finding alternatives to petroleum-based biocides to protect hardwood lumber and manufactured products; detecting external and internal defects to improve the milling of hardwood logs and lumber; and new cutting technologies for processing logs, boards, and other value-added wood products.

Assisting TTIC in the preparation of the reports were the U.S. Department of Agriculture's Extension Service, The National Institute of Standards and Technology of the U.S. Department of Commerce, the University of Maine, and the Hardwood Research Council.

Kate Hayes, TTIC Coordinator, indicated that the reports are the results of a two-year project to identify and transfer new technology that would aid the U.S. hardwood industry. "The U.S. hardwood industry is an important part of the U.S. economy," Hayes said. "Hardwood lumber produced in 1990 was valued at more than \$3.5 billion. The industry employs more than 700,000 workers, and sales of all hardwood products reach around \$65 billion annually. However, the industry faces problems, including a shortage of raw materials and processing techniques that are becoming increasingly more expensive."

Hayes said the technologies identified in this series of reports will help the U.S. hardwood industry stay competitive in the world marketplace by allowing closer tolerances and higher yields from the hardwoods that are harvested and milled.

Copies of the four reports were provided to U.S. hardwood, manufacturing, and supplier organizations and industries "that can either implement the technologies recently entering the market, develop uncommercialized technologies further, or license them to create new products, processes, or services." A limited number of copies of the reports may still be available.

In a new series *Transferring Technologies for Industry*, ISSN 1064-3451, the four titles are as follows.

No. 1, "Detection System to Identify Wetwood in Standing Living Trees and in Cut Logs and Boards," by Christopher W. Murdoch.

No. 2, "Novel Technology for Processing Logs and Boards or Other Value-Added Wood Products," by Gary W. Holland.

No. 3, "External and Internal Defect Detection to Optimize Cutting of Hardwood Logs and Lumber," by Sun Joseph Chang.

No. 4, "Alternatives to Petroleum-Based Biocides for Protecting Hardwood Lumber and Manufacturing Products," by Christopher W. Murdoch.

For additional information contact Kate Hayes at:

Phone: (301) 504-6875

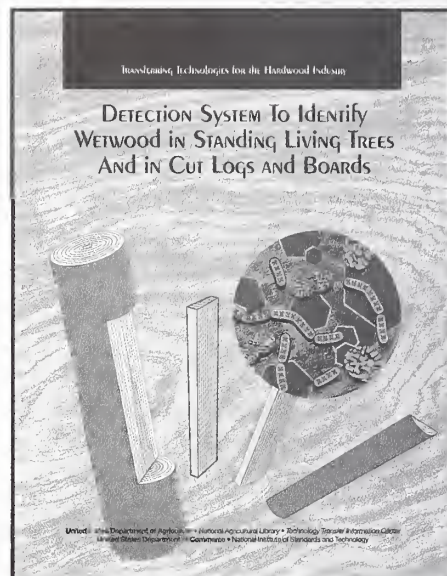
TTY: (301) 504-6856

FAX: (301) 504-7098

Internet: khayes@nalusda.gov

Or write to:

*Kathleen Hayes, Coordinator  
Technology Transfer Info Center,  
Fourth Floor  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351*



The first of the four hardwood reports, and first of the new technology transfer series.

## NAL Issues Bibliography on Global Trade

The National Agricultural Library has issued a bibliography "International Trade Policies and Global Agriculture, January 1991-February 1993," *Quick Bibliography*, 93-22, that is a listing of recent articles on international agricultural trade and worldwide policies affecting it.

A large number of the articles deal with the North American Free Trade Agreement (NAFTA) and the General Agreement on Tariffs and Trade (GATT). Nearly 350 citations are included; these citations were taken from NAL's AGRICOLA bibliographic database, which lists 3 million pieces of agricultural literature.

"This bibliography is intended to provide current awareness on the subject," said Mary Lassanyi, who compiled the bibliography. "The citations



are a substantial resource for anyone investigating the topic of international agricultural trade."

Lassanyi, who is the coordinator of NAL's Agricultural Trade and Marketing Information Center (ATMIC), said the bibliography updates another that was done by NAL on GATT and global agriculture in Oct 1990 (QB 91-09). The earlier bibliography contained citations on literature from Jan. 1989 to Aug. 1990. Most of the ma-

terials listed in bibliography are available from NAL.

To obtain a copy of the bibliography, send a self-addressed label with the request to:

*Agricultural Trade & Marketing  
Information Center  
National Agricultural Library,  
Room 304  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351*

For additional information write to the above address or contact ATMIC at:

*Telephone: (301) 504-5509*

*TTY: (301) 504-6856*

*FAX: (301) 504-6409*

*Internet: mlassanyi@nalusda.gov*



## USAIN Future Plans; Update on Recent Meetings

by Robyn Frank  
Head, Information Centers Branch,  
National Agricultural Library

The United States Agricultural Information Network (USAIN) held its biannual American Libraries Association (ALA) meeting on June 25, 1993, in New Orleans, Louisiana. The meeting was held at new time on a new day, Friday, 4 pm. The large attendance indicated that future meetings of this group at ALA should continue to be held on Fridays.

Martha (Bowman) Alexander, University of Missouri-Columbia, the new USAIN president, presided over the meeting after Richard Rohrer introduced the 1993-94 USAIN Executive Council, which is composed of Martha Alexander; Cynthia Via, Pioneer Hi-Bred International, Inc.; Beverlee

French, University of California-Davis; Brice Hobrock, Kansas State University; Kent Hendrickson, University of Nebraska-Lincoln; Barbara McBride, Food Marketing Institute; Richard Rohrer, Univ. of Minnesota-St. Paul, Past-President; and Robyn Frank, NAL Liaison.

Brice Hobrock, reported on the progress of the Agricultural Literature Preservation Initiative. A grant for \$7,000 was awarded by the Council on Library Resources. USAIN has contributed \$5,000 and Cargill, Inc., has contributed \$5,000 for a total budget of \$17,000 for the preservation initiative. A meeting of the USAIN Preservation Panel was held February 22-23 at the Smithsonian Institution. Panel members include: Nancy Gwinn, Smithsonian Institution; Pamela Andre, NAL; Jan Kennedy-Olsen, Cornell University; Peggy Johnson, University of Minnesota-St. Paul; Wes Boomgaarden, Ohio State University; Erich Kesse, University of Florida; Kay Walter, University of Nebraska-Lincoln; Beverlee French, University of California-Davis; Keith Russell, NAL; Barbara Jenkins, South Carolina State University; and Elizabeth Adkins, Kraft-General Foods. The final report is now available from:

*Brice Hobrock, Director of Libraries  
Kansas State University  
Manhattan, Kansas 66506.*

JoAnn DeVries, University of Minnesota-St. Paul, program chair, reported on the plans for the Third USAIN Program Meeting to be held October 28-30, 1993, at the Auburn University Conference Center, Auburn, Alabama. The theme of the conference is "Rural Information at the Crossroads: Issues and Opportunities."



photo courtesy of M. Alexander

Martha Alexander

The program will focus on the problems and opportunities related to rural information access and delivery and will highlight collaborative efforts among all the various information providers in rural areas such as libraries, Extension, rural development councils, local governments, etc. The role of the Internet and other information technology will be explored. Reports from agricultural researchers and librarians at Tuskegee Institute including a field trip to Tuskegee is a special feature of the program. For further information on the conference, contact:

*JoAnn DeVries, USAIN  
St. Paul Campus Central Library  
University of Minnesota  
1984 Buford Avenue  
St. Paul, MN 55108  
Phone: 612-624-7446  
FAX: 612-624-9245  
Bitnet: j-devr@uminn1  
Internet: j-devr@vm1.spccs.umn.edu*

Pamela Andre and Keith Russell gave the NAL update report. Pam announced that in January, NAL received a commitment of \$150,000 for two years to do an evaluation study on publications in electronic format. An additional \$50,000 was funded for an evaluation study on electronic access to food irradiation materials. The Food Safety and Inspection Service, USDA, and a committee of FAO/WHO are also contributing funds for the food irradiation project.

A similar annual USAIN/NAL update was held at the Special Libraries Association meeting in Cincinnati, Ohio, on June 8. Attendees at both the ALA and SLA meetings were given the

opportunity to participate in NAL's strategic planning process. (See first page of this issue of *ALIN*.)

Highlights of reports from the USAIN/NAL Update at the midwinter ALA meeting in Denver, Colorado, January 22, 1993, included the following:

Dick Rohrer, USAIN President, charged all committee and interest group chairpersons to develop mission statements and agendas for their groups. There may be a preconference in October to concentrate on the goals and objectives of USAIN and its committees and interest groups.

Nancy Eaton, Iowa State University, reported that the text digitizing report

had been completed and was ready for distribution. She also reported on the status of the biotechnology cooperative collection development project.

John Ulmschneider, North Carolina State University, gave a final report on the facsimile transmission project. Three of the findings of this project are: (1) a replacement of traditional facsimile is needed by persons in the field, (2) libraries are still in the developing stages of acquiring the appropriate hardware and software to utilize newer facsimile technology, and (3) electronic document delivery service was very popular with the faculty.

## USAIN LISTSERV

### How to Subscribe to USAIN-L:

Subscriptions to USAIN-L are handled by a computer program called LISTSERV. By sending messages to LISTSERV, you can subscribe, remove yourself from the list, or change various mailing list options.

To subscribe to USAIN-L, send an e-mail message to:

**listserv@dewey.lib.ncsu.edu**

The body of the message should consist of a single-line command like this:

**subscribe usain-l John Doe**

...substituting your own name. You don't need to provide any additional information. LISTSERV will extract your e-mail address from your message. You should receive an e-mail message from LISTSERV confirming that you have been added to the list.

For more information about how LISTSERV works, send a message to **listserv@dewey.lib.ncsu.edu** containing the single word:

**help**

LISTSERV will send you a message explaining the various features that are available. If you are unable to subscribe, send a message to one of the list owners:

**Eric Morgan**

**eric\_morgan@library.lib.ncsu.edu**

**or Richard Rohrer**

**r-rohr@vmi.spces.umn.edu**



**Staff  
Update**

## Practicum at FNIC Is a Dream Come True for German Student

Working with NAL's Food and Nutrition Information Center (FNIC) was a dream come true for Monika Bussmann, a nutrition student from the Justus-Liebig Universität located in Giessen, Germany. The dream began last year after Roy Ackmann, her supervisor and Director of the Informations- und Dokumentationsstelle für Ernährung (Department for Information and Documentation for Nutrition) at the Justus-Liebig Universität, visited FNIC. He told Monika about FNIC and she thought it would be an ideal place to complete the six month practicum required for her degree. It became her goal to work at FNIC. Finally, after countless faxed messages between Monika and Natalie Updegrave, FNIC nutritionist, her dream became a reality. On October 4, Monika stepped off the airplane at Dulles Air-

port, near Washington, DC, ready to begin her adventure in the United States.

Because of her interest in electronic sources of food and nutrition information, Monika spent much of her time at FNIC exploring bulletin boards, databases, and software programs. For example, she investigated the International Food and Nutrition Database (IFAN), part of Penn State's PenPages database; Canada's FIND database; and the Human Nutrition Information Service's Nutrient Data Bank Bulletin Board. Monika compiled the FNIC guide "Electronic Sources of Food and Nutrition Information," which was published by NAL as a miscellaneous publication in May 1993. She also gave a series of demonstrations to teach the FNIC staff how to use these electronic resources.

Monika completed her work with FNIC in March 1993. When she returned to Germany, Monika helped get the Informations- und Dokumentationsstelle für Ernährung connected to Internet. She now communicates frequently with FNIC staff. In fact, Monika assisted with a reference re-





photo: J. Swab

Monika Bussmann

this international cooperative venture, FNIC staff and Roy Ackmann, Director of the Informations- und Dokumentationsstelle für Ernährung hope to work together again on a different project.

When asked about Monika's work with FNIC, Sandy Facinoli, FNIC Coordinator replied, "Having Monika work at FNIC gave us a great opportunity to exchange nutrition information internationally. Most importantly, she worked on a valuable project that we had needed for some time."

While working at FNIC, Monika commented on her experiences: "It is really wonderful for me to have the opportunity to work at NAL. All of the people are so nice and helpful, and I am enjoying my stay very much. I am learning many new things through my project at FNIC, and I can take a lot of information back to Germany."

At home, Monika has a part-time practicum at the Informations- und Dokumentationsstelle für Ernährung.

She works as a research assistant with the German videotex system (BTX), an electronic information system available throughout the nation.

When asked to comment on her experiences in the United States, Monika replied, "Apart from my work, I have enjoyed staying in the United States, meeting all the different people, and learning about new customs. I stay with a very nice family, and it is very interesting to see how they celebrate the holidays and just to learn about the daily American way of life. It's just a great experience for me to be here."

Monika plans to use what she learned at FNIC as part of her thesis, and after graduation she hopes to continue her work with electronic technology in the field of nutrition. Perhaps, if opportunities arise, she will continue her work at the Justus- Liebig Universität or return again to the United States!

—Natalie Updegrave Partridge

quest on care labels used in European countries. As a result of the success of

## Finnblade Retires

Ruth Finnblade, a supervisory library technician in the Gift & Exchange unit of the Acquisitions and Serials Branch of the Library, retired at the end of June. In recent years she has

been known to *ALIN* readers as the coordinator of the Library's programs to obtain materials to fill gaps in the serials collection and to distribute surplus publications. She prepared both the gaps and the surplus lists for publication in *ALIN*, and maintained the listings in ALF, NAL's electronic bulletin board.

Finnblade retired after 20 years service in the government. She joined the NAL staff in 1974 as a temporary clerk typist in the Gift & Exchange unit, received her permanent appointment as a technician in the Serials Section in 1975, and was promoted to supervisory library technician in 1980. She attended night school at the USDA Graduate School and University of Maryland to earn her Library Technician's Certificate, and also completed various computer courses and other training.

Among Finnblade's responsibilities and accomplishments while working at NAL, were the conversion of the entire manual serials check-in records to automated records in OCLC, converting the majority of the records herself over a five-year period, then training the technical staff to carry the project to completion and maintain it. She supervised the serials check-in technicians

and staff maintaining other NAL manual and automated files related to serials, and she edited STAR and SAMANTHA serial records (previous versions of current automated records used for printed and microform products). She also served as an EEO counselor for USDA, and as a member of several of NAL's EEO and special project committees. In the last two years she has also served as a volunteer in the reading program at the Beltsville Academic Center.

Before coming to NAL, Finnblade worked in a NOAA laboratory library on the University of Maryland campus and in a variety of private sector positions with banks, C&P Telephone, and others, with intervals for raising her son and two daughters. She was born and raised in Hyattsville, Maryland, where her family was among the founding families, and currently lives in Annapolis. In retirement, she looks forward perhaps to some travelling to add to past travels to Spain, Germany, Austria, the Bahamas, and Hawaii, but especially she looks forward to spending more time with her granddaughter and hopes for additional grandchildren.



photo: J. Swab

Ruth Finnblade

## In Memoriam, Gabor Szent-Ivany



photo courtesy NAL Special Collections

Gabor Szent-Ivany receives an award from NAL Director John Sherrod (right) in 1970.

On April 14, 1993, Gabor Szent-Ivany, a retired librarian who worked in Cataloging at the National Agricultural Library for 25 years, died at the Suburban Hospital from a massive heart attack.

Mr Szent-Ivany was born in Besztercebanya, Hungary (now known as Bauska Bistrica in Slovakia) on September 29, 1919; he became a lawyer in his native country and worked for the

Department of Agriculture in Budapest. In 1951, after World War II he emigrated to the United States and established himself in Pittsburgh, PA. He obtained his degree in Library Science from the Carnegie Mellon University in Pittsburgh.

In 1957 he moved to the Washington area and soon after began to work in the National Agricultural Library. He was a senior cataloger for many years and responsible for the training of many of the staff in the Cataloging Branch.

An interesting and versatile individual he was also a professional photographer, excellent pianist, and outstanding tennis and golf player.

After his retirement from NAL in 1983 he dedicated most of his time to fighting for the civil and human rights of his compatriots, the Hungarian minority in Slovakia.

One of his many accomplishments after his retirement was writing a book in Hungarian on Janos Eszterházy, a member of a prominent family of Magyar nobles and leader of the Hungarian minority in the Czechoslovak parliament who died imprisoned for his fight for civil rights in Slovakia; this book is being translated into German at the time of Szent-Ivany's death.

Those of us who knew Gabor Szent-Ivany at NAL will remember him as a warm, caring and optimistic individual who, with his sense of humor, made the everyday working situation pleasant for his colleagues.



News from  
Other  
Libraries

### Raschke Coordinates RDDS Region 6

Susan Doughty Raschke, Head of Interlibrary Services at Texas A&M's Sterling C. Evans Library, is the coordinator for the Regional Document Delivery System (RDDS) Region 6 (Southwestern Region). This region serves USDA personnel within the states of Texas, Louisiana, Arkansas,

New Mexico, and Oklahoma. Other Region 6 personnel and cooperating libraries are Linda Deason, USDA Clerk at Texas A&M; Jane Kleiner and Jackie Jones at Louisiana State University; Monica Doman, University of Arkansas; Vita Montano at New Mexico State University; and Debra Hull at Oklahoma State University.

As Head of Interlibrary Services at Texas A&M University, Susan Raschke supervises one of the busiest Interlibrary Loan (ILL) and Document Delivery operations in the country.

About 87,000 requests per year are processed in her unit. Region 6 libraries process over 13,000 requests for USDA personnel. Raschke and Linda Deason oversee 75 hours of student assistance per week to process and complete the requests of USDA researchers.

Raschke has been working to streamline procedures necessary to meet RDDS processing turnaround goals consistently and to improve services provided by Interlibrary Services. She has added ARIEL operations to her services. Using ARIEL software and off-the-shelf computer hardware, images of documents are transmitted electronically between libraries via the Internet. She is installing SAVEIT software to track interlibrary loan transactions and provide more detailed reporting. She has also ordered and installed new equipment, including a new book photocopier and computer workstation.





photo courtesy of S. Raschke

Susan Raschke

Before joining Texas A&M and the RDDS program in October 1992, Susan Raschke was Extended Campus Librarian for Regis University in Denver, Colorado. She earned her M.A. in Librarianship & Information Management at the University of Denver in 1981, and her bachelor's degree in psychology at the same institution in 1980. Susan was recently selected to be a regular columnist on OCLC ILL concerns for *OCLC Systems & Services*.

## Pedersen Coordinates RDDS Region 5

Wayne Pedersen, Head of Resource Sharing at Parks Library, Iowa State University in Ames, Iowa, is the coordinator for the Regional Document Delivery System (RDDS) Region 5 (Mid-Continent Region). This Region serves USDA personnel within the states of Iowa, Missouri, Nebraska, Kansas, and Colorado. Other Region 5 personnel and cooperating institutions include Vicki Eastman at University of Nebraska-Lincoln; Marilyn Voegelé at University of Missouri; Christi MacWaters at Colorado State University; and Linda Tanner at Kansas State University.

As Head of Resource Sharing,



photo: T. Wray

Wayne Pedersen

Pedersen administers Interlibrary Loan borrowing and lending operations and the Photoduplication unit. He supervises seven full-time staff members and approximately 30 student assistants. He also spends five hours per week working at the general reference desk.

The Interlibrary Loan unit receives and fills over 22,000 lending requests per year and 6,000-7,000 borrowing requests. In addition, Region 5 processes 4,000-6,000 requests annually for USDA personnel. Wayne has recently been helping with the development of a network-wide *RDDS Procedures Manual* to standardize the receipt and processing of RDDS requests.

The Resource Sharing section has been very active in terms of new document delivery technology. It was involved in North Carolina State University's Digitized Document Transmission Project (NCSU/DDTP), and has recently installed ARIEL text digitizing and transmission software. The section is currently working on major initiatives that include an evaluation of commercial document delivery suppliers, experimenting with an internal, fee-based document delivery service, implementing a pilot project to subsidize borrowing fees currently passed on to Iowa State University patrons, and investigating the use of PacLink and PacLoan modules of NOTIS. Pedersen also chairs a task force re-

evaluating the administration of OCLC systems and services at Parks Library.

Wayne Pedersen came to Iowa State, his undergraduate alma mater, in October 1991 from the University of Texas Health Science Center, San Antonio, where he was a reference, interlibrary loan, and library services librarian. Previously he had been a medical librarian at Iowa Lutheran Hospital in Des Moines, Iowa. Mr. Pedersen was born in northern Iowa and received his graduate degree in library science at the University of Iowa, so his Iowa roots are quite extensive.



## Wheeler McMillen Honored at NAL Ceremony

On March 16, 1993, the National Agricultural Library joined with the Wheeler McMillen Memorial Committee, the New Uses Council, the American Farm Bureau Federation, the Farm Journal, and Agri/Washington in a "Tribute to Wheeler McMillen, 1893-1992." A short biography of Wheeler McMillen, the nationally and internationally noted author, speaker, reporter, editor, and publisher (printed in the program for the ceremony), is reprinted on the following pages of this issue of *ALIN*.

The evening ceremony and reception were attended by several hundred friends and colleagues of Wheeler McMillen and members of the sponsoring organizations. Highlights of the ceremony included several presentations and speeches. McMillen's son, Robert D. McMillen, unveiled a portrait of



photo courtesy of R. McMillen

**Wheeler McMillen**  
(detail of the portrait)

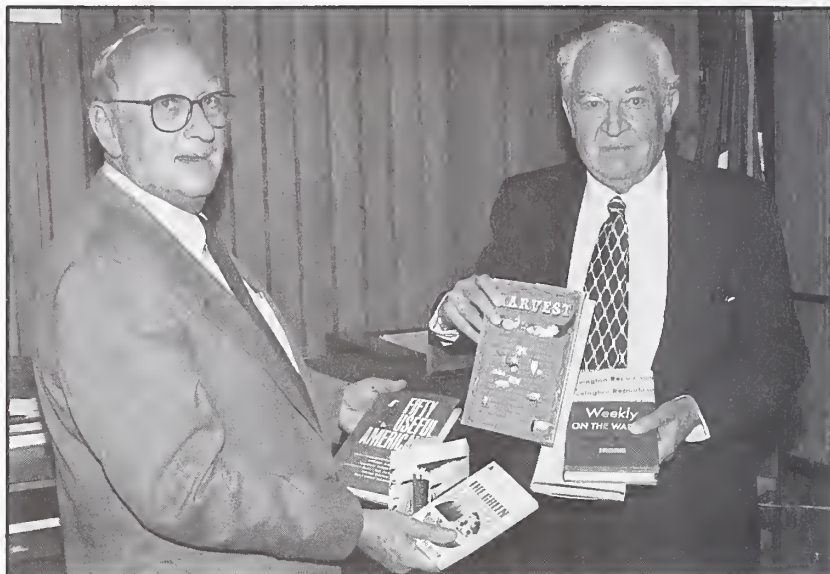


photo: J. Swab

**Joseph Howard accepts Wheeler McMillen books from his son, Robert D. McMillen.**

Wheeler McMillen and presented it to the National Agricultural Library to be hung in the library's lobby; he also gave the library a collection of his father's books to fill gaps in the library's holdings (a bibliography of the gift books follows McMillen's biography). Jeffrey Gain, President of the New Uses Council presented the library with a flame-shaped, crystal award, engraved as follows:

*New Uses Council's  
Wheeler McMillen*

*Frontiersman in Agriculture Award  
In recognition of significant achievement in the development of new uses for renewable commodities advancing agriculture to new frontiers.  
Jeffrey W. Gain, Chairman  
October 6, 1992.*

Paul S. Weller, Jr., was moderator of the program. NAL Director Joseph H. Howard welcomed the guests and participants, and accepted the gifts and award on behalf of the library. Martin Andreas, Chairman of the Alternative Agricultural Research & Commercialization Center spoke on challenges facing the center. Alan Fusonie, Head of NAL Special Collections, presented a video entitled "Wheeler McMillen Speaks," consisting of excerpts from several hours of taped oral history interviews. Wayne Rasmussen, retired USDA Historian, gave a talk on

Wheeler McMillen's contributions and his place in American history. The program was closed with a benediction by McMillen's friend and colleague, Roy E. Battles.

## **Tribute to Wheeler McMillen 1893-1992**

**by Betty Miller  
Professor of English  
Ohio Northern University**

As a speaker, reporter, editor, publisher and author, Wheeler McMillen achieved national and worldwide recognition. When he died on March 4, 1992, at age 99, the *New York Times*, the *Washington Post*, the *Philadelphia Inquirer*, the *Toledo Blade*, the *International Herald Tribune*, and small town weeklies carried the news of his death. For many, he is remembered as a warm and loyal friend who shared ideas with conviction, clarity and a lively sense of humor.

Wheeler McMillen was born January 27, 1893, on a farm near Ada, Ohio, to Lewis D. and Ella (Wheeler) McMillen. As a boy he attended a one-

room district school near McGuffey and graduated from Ada High School in 1910.

While still in high school he worked for the *Ada Record* and its editor, Agnew Welsh. Mr. McMillen described his job "as a printer's apprentice and occasional reporter." He attended Ohio Northern University but left in 1912 eager to start a career of writing and publishing that continued until the last year of his life.

Mr. McMillen began as a reporter for the *Lima [Ohio] Republican-Gazette* and worked as a reporter and desk editor for newspapers in Ohio, Indiana, and Illinois.

In 1914, at 21, he purchased the *Covington Republican* in Indiana and became the youngest publisher in the state. More than 50 years later, in 1969, when his book *Weekly on the Wabash* was published, Covington honored him with a "Wheeler McMillen Day." His account of his early days in journalism also recorded the two important events of his personal life: his marriage in 1915 to Edna Dorothy Doane, a marriage that lasted nearly 59 years until Mrs. McMillen's death in 1974, and the birth of their son Robert, in 1916. From 1974, Mr. McMillen lived with his son in Washington, D.C. and then in rural Virginia in a relationship he described as "very personal friends."

With his wife and son, Mr. McMillen





photo: J. Swab

Paul S. Weller, Jr.



photo: J. Swab

Joseph H. Howard



photo: J. Swab

Jeffrey Gain presents  
Wheeler McMillen Award.

returned to his father's farm near Ada in 1918 to help with the farming but continued his free-lance writing. He was involved in Grange activities and helped organize the Ohio Farm Bureau.

In 1922, he received an unexpected offer to become associate editor of *Country Home* (the new *Farm and Fireside* name). Never far from the land, he soon bought farmland which he later sold and then maintained another working farm in New Jersey.

In 1935, with the aid of Henry Ford and others, Mr. McMillen organized the Farm Chemurgic Council and was president or chairman from 1937 to 1962. The organization with a new science, chemurgy, championed research to find industrial uses for farm crops and waste by-products and new useful crops as well.

Wheeler McMillen achieved national prominence in 1939 when he was appointed editor-in-chief of *Farm Journal*, the country's biggest agricultural periodical with three million readers. He served as editor until 1955 and then as vice president of Farm Journal, Inc., until 1963. During part of this period he was also editor-in-chief of *Pathfinder* news magazine, later called *Town Journal*, in Washington, D.C.

Appointments and elections to a variety of organizations indicate Mr. McMillen's wide interests: director of

Bankers National Life Insurance, New Jersey Bell Telephone Co., New Jersey State Chamber of Commerce, and the National Audubon Society; trustee of Rutgers University; member of Cosmos Club, Washington, DC, and member of the 207 year old Philadelphia Society for Promoting Agriculture, of which he was president from 1960 to 1962. From 1939 to 1969 he was a member of the National Executive Board, Boy Scouts of America, in addition to other positions in the national scouting program. He was awarded the scouting Silver Antelope and Silver Buffalo for his services to youth.

Mr. McMillen was the United States delegate to the Congress of Industrial Chemistry in Milan, Italy, and Executive Director of President Eisenhower's Commission on Increased Industrial Uses of Agricultural Products. In 1984 President Ronald Reagan awarded him a private sector initiative commendation "in recognition of his immense contribution to American agriculture through his initiatives and promotion of new uses for farm crops." Recipient of the Louis Bromfield Malabar Farm Foundation gold medal for services in conservation, Mr. McMillen also received many Freedom Foundation and other awards for his speeches and editorials.

In 1990, Mr. McMillen in Kansas City received the American Agricultural Editors Association's first

"Lifetime Achievement Award." He delivered a powerful 20-minute speech and received a standing ovation from many who had not been born when he served as president of the group in 1934 to 1938.

Wheeler McMillen's 15 books, four of which were translated into other languages, are a record of his lifetime achievements. He never forgot the place where he was born and the people who influenced him. In 1940, Ohio Northern University (ONU) conferred on him an Honorary LL.D. He was elected to the ONU board of trustees and served from 1944 to 1949. During ONU homecoming weekend in 1964 he was honored as "Alumnus of the Year."

Wheeler's articles published in his "active retirement" always pointed toward the future but also reflected a pleasure in remembering the past. He came home to give a memorable speech or tell a good story to groups at the university, at Ada High School, at the Ada Farmers and Merchants Picnic, or at the Grange. In 1983, he took part in the Hardin County Sesquicentennial celebration in Kenton.

Wheeler McMillen kept a short, hand-illuminated precept hanging near his desk at his son's home in Virginia. It quotes: "Human experience has yielded no higher wisdom than that expressed by the Golden Rule."

Those who knew Mr. McMillen



photo: J. Swab

Martin Andreas

were proud of his accomplishments. More than all his awards, they remember him with respect and affection as a man who gave these qualities in return.

## Books by Wheeler McMillen Donated to NAL by Robert D. McMillen

Compiled by Mary Silva  
Director's Office, NAL

*L'Agriculteur À L'Âge Mécanique.* Paris, France: ISTR, 1966. [French]

*Bugs or People?* New York: Appleton-Century, 1965.

*The Farmer.* Washington, DC: Potomac Books, Inc., 1961.

*Fifty Useful Americans.* New York: G. P. Putnam's Sons, 1965.

*The Green Frontier: Plants in the Service of Man.* Greenwich, Connecticut: Fawcett Publications, 1969.

*The Green Frontier: Plants in the Service of Man.* Tokyo: The Eihosha Ltd., 1969. [English; Japanese annotations.]



photo: J. Swab

Robert D. McMillen (right) and Richard W. Newpher, Executive Director, American Farm Bureau Federation, unveil the portrait of Wheeler McMillen.

*The Green Frontier: Stories of Chemurgy.* Bangkok, Thailand: Sahamitr, 1973. [Thai]

*The Green Frontier: Stories of Chemurgy.* Putnam, 1969. [Arabic]

*The Green Frontier: Stories of Chemurgy.* Rangoon, Burma: U Khin Maung Lay, 1971. [Burmese]

*Harvest.* New York: Appleton-Century, 1964.

*Land of Plenty.* Bombay, India: Vora & Company Publishers Private Ltd., 1964. [Gujarati]

*Land of Plenty.* Madras, India: Jothi Nilayam, 1964. [Tamil]

*Land of Plenty.* New York: Holt, Rinehart & Winston, 1965. [Telugu]

*Land of Plenty: American Farm Story.* Rangoon, Burma: Yon Young

Press, 1963. [Burmese]

*Land of Plenty: The American Farm Story.* Bombay, India: Vora & Company Publishers Pvt. Ltd., 1966. [Marathi]

*Land of Plenty: The American Farm Story.* Cairo, Egypt: Al Maarifa Press, 1964. [Arabic]

*Land of Plenty: The American Farm Story.* New York: Washington Square Press, 1964.

*Por Que Es Rico Estados Unidos.* Buenos Aires, Argentina: Plaza & Janes, S.A., 1966. [Spanish]

*Por Que os Estados Unidos são Ricos?* Rio De Janeiro, Brazil: Distribuidora Record, 1965. [Portuguese]

*Terre Nourricière.* Paris, France: ISTR, 1961. [French]





photo: J. Swab

Alan Fusonie



photo: J. Swab

Wayne Rasmussen

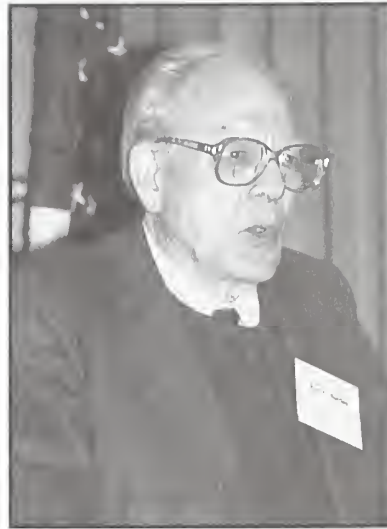


photo: J. Swab

Roy E. Battles

*Weekly on the Wabash.* Carbondale, IL: Southern Illinois University Press, 1969.

Caldwell, Idaho: The Caxton Printers, Ltd., 1963.

*Why the United States is Rich.* The Young Collector. New York: D. Appleton & Company, 1928.

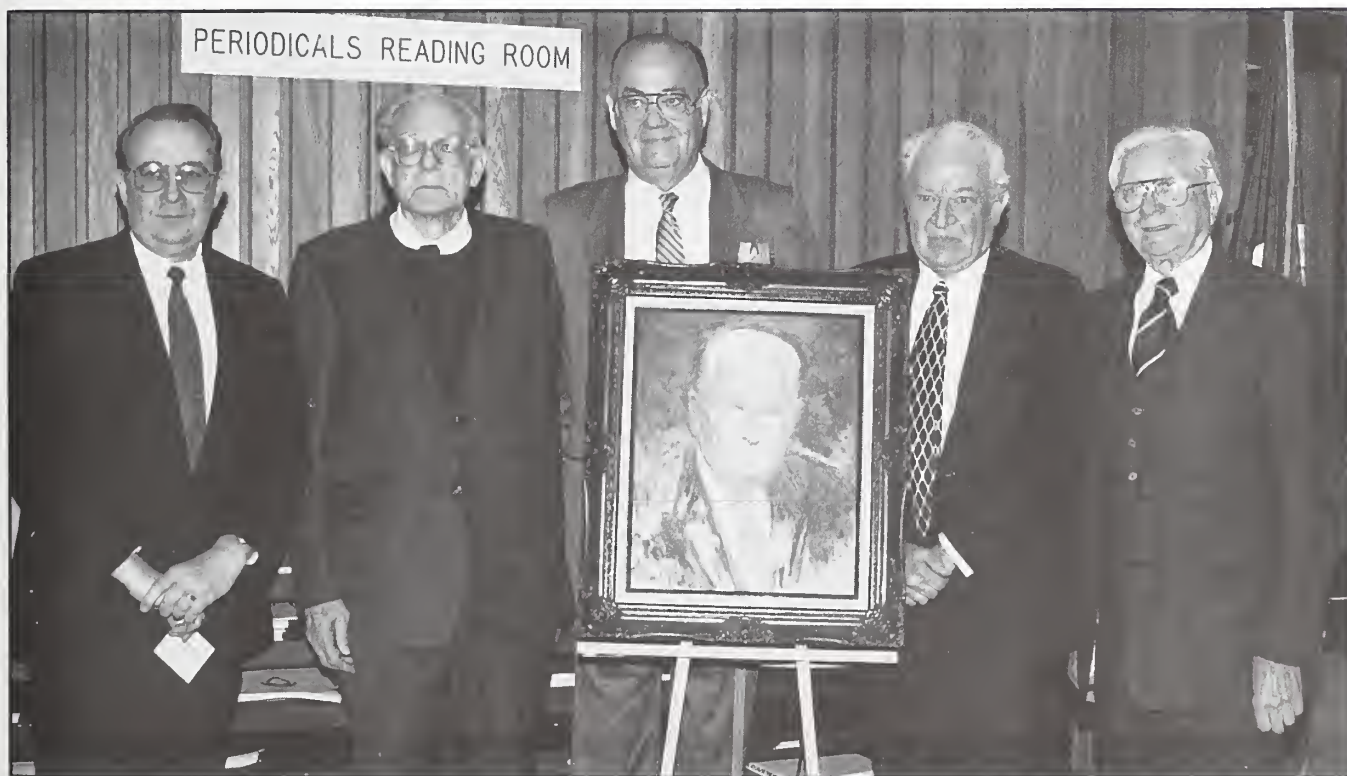


photo: J. Swab

The Wheeler McMillen Memorial Committee (L-R): Paul S. Wheller, Jr.; Roy E. Battles; C.H. Fields; Robert D. McMillen; and Layne R. Beaty.

## NAL Celebrates Its 3,000,000th AGRICOLA Record

On Monday, July 12, 1993, the National Agricultural Library celebrated the 3,000,000th record in the AGRICOLA (AGRICultural OnLine Access) database. It consists of bibliographic records for journal articles, monographs, theses, patents, software, audiovisual materials, and technical reports relating to all aspects of agriculture. Prior to 1984 AGRICOLA was primarily an index to the collection of the National Agricultural Library, which is the largest collection of agricultural literature in the world with over 2.2 million volumes. Since 1984 NAL has expanded the scope of AGRICOLA to include literature citations for material held in cooperating libraries. The NAL staff and its cooperators regularly scan all issues of over 2,500 journal titles for input to the database. The library began to create the database in 1965. Since 1970 AGRICOLA has been available in magnetic tape, and has been on-line from several vendors during most of the intervening time. More recently it has been available on CD-ROM discs.

Keynote speaker at the celebration ceremony was Dr. Robert F. Barnes, Executive Secretary of the American Society of Agronomy. Speaking on behalf of the Department of Agriculture was Eugene Branstool, Assistant Secretary for Marketing & Inspection Services. USDA was also represented by Wardell Townsend, Assistant Secretary for Administration.

NAL speakers were Joseph H. Howard, NAL Director; Gary McCone, Head, Database Administration Branch; and Shirley J. Edwards, Head, Indexing Branch.

Tom Bryant, Jr., Executive Director of the Associates of the National Agricultural Library, Inc., presented a plaque to the library in commemoration of the 3 millionth record. Receiving the plaque for NAL were Judith Torgerson, Technical Information Specialist in NAL's Indexing Branch, who indexed the volume from which the 3 millionth record in AGRICOLA was derived, and Debra Miller, Library Technician, who did the descriptive cataloging and data entry. The Associates also provided refreshments for the event.



photo: J. Swab

Judith Torgerson and Debra Miller (at the keyboard) review the 3,000,000 record in AGRICOLA, which they created.



photo: J. Swab

Tom Bryant presents the plaque commemorating the 3 millionth record to Judith Torgerson and Debra Miller for NAL.





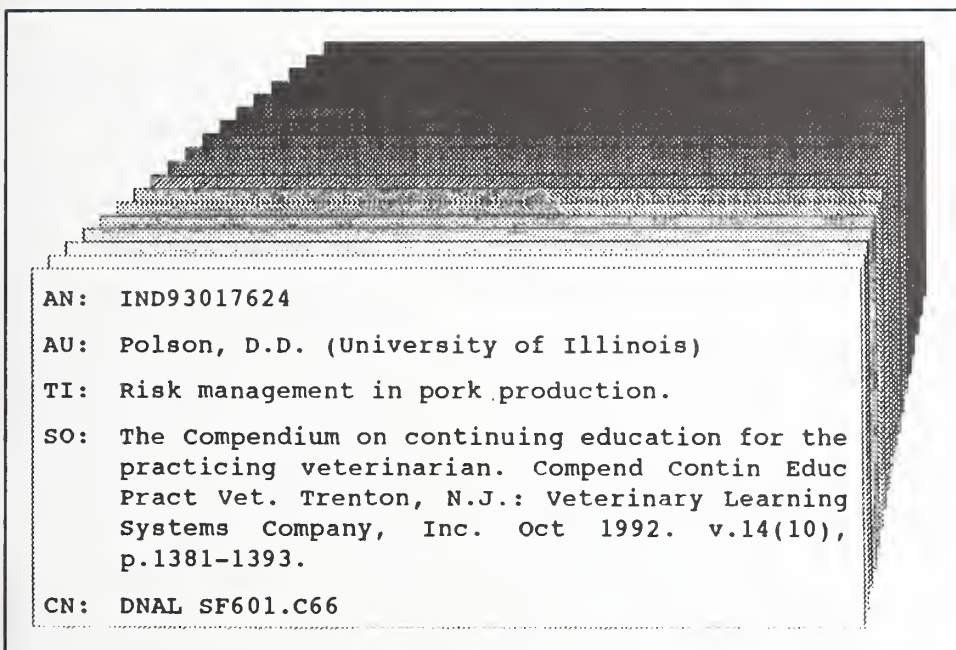
photo: J. Swab

Joseph H. Howard opens the celebration.



photo: J. Swab

Shirley Edwards led the indexing effort.



The 3,000,000th record in AGRICOLA.

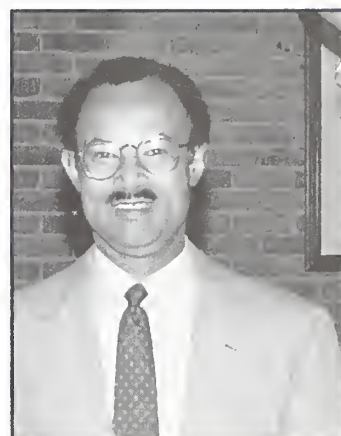


photo: J. Swab

Wardell Townsend



photo: J. Swab

Robert F. Barnes

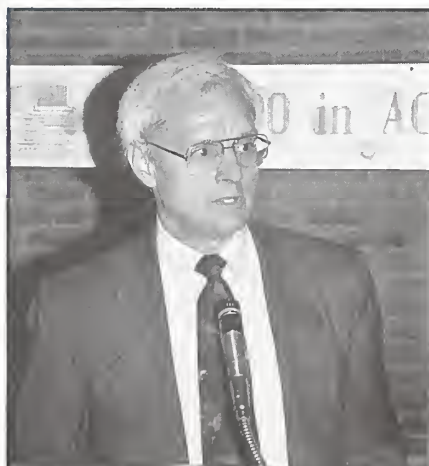


photo: J. Swab

Eugene Branstool



photo: J. Swab

Gary McCone

# Highlights . . .

(continued from page 2)

## NAL Linked with Food Service Institute

Authorized under the Child Nutrition and Women, Infant and Children (WIC) Reauthorization Act of 1989, the National Food Service Management Institute (NFSMI) entered into a Trust Fund Cooperative Agreement with NAL to link the resources of NAL's Food and Nutrition Information Center (FNIC) with NFSMI at the University of Mississippi in Oxford, MS. An NFSMI nutritionist is now located at FNIC offices in NAL and reference calls to the Institute's toll-free telephone number are switched directly to FNIC. NAL provides document delivery services to NFSMI clientele.

## ALF Ties State Offices of Rural Health to NAL

The Rural Information Center's Health Service (RICHS), the U.S. Department of Health and Human Services, and the North Central Wisconsin State Office of Rural Health are collaborating in an effort to encourage State Offices of Rural Health (SORH) to use the networking capabilities of NAL's computer bulletin board ALF. RICHS staff have trained SORH staff in the use of ALF and encourage state use through a "health question of the week."

## CD-ROM of Papers of Early Nutritionist Produced

A CD-ROM of the research and personal memorabilia of Wilbur Olin Atwater, much of it from the NAL collection, is being produced by the International Life Science Institute (ILSI). In 1893-94, Dr. Atwater was the first researcher to receive funds from the U.S. Department of Agriculture for research into human nutrition. Events commemorating the centennial of this event are planned.

## Animal Welfare Workshops Held

In 1993, NAL's Animal Welfare Information Center (AWIC) is holding

three workshops on "Meeting the Information Requirements of the Animal Welfare Act." The workshops, which are targeted at members of the biomedical research community, will provide a comprehensive overview of the reporting requirements of the Animal Welfare Act with regard to animal models. The workshops also provide an introduction to the concept of alternatives, and where to find, and how to access electronically, information on alternatives. Information on the use of Telnet and "gopher" listserves that can be accessed through the Internet system will also be included.

## Farm Animal Welfare Addressed by AWIC

NAL's Animal Welfare Information Center (AWIC) supported the Department of Animal Science of Purdue University in producing a videotape on "Normal and Abnormal Behavior in Domestic Livestock." The video, produced for both the agricultural and biomedical communities, provides documentary evidence of husbandry or management practices that may have damaging effects on domestic livestock. Practices that can be used to avoid these effects are introduced.

## Work Continues on World List of Agricultural Serials

NAL, in cooperation with CAB International, the Food and Agricultural Organization of the United Nations (FAO), and other agricultural organizations, continues work on a database of agricultural serials published throughout the world. The database is called the *World List of Agricultural Serials* (WLAS). The WLAS computer database has been released on CD-ROM by SilverPlatter International, Inc.

## Unified Agricultural Thesaurus Progresses

NAL continues to be a key player in the international effort to produce a Unified Agricultural Thesaurus (UAT). The purpose of this project is to improve worldwide access to agricultural information through an improved thesaurus system. NAL, CAB International (CABI), and the Food

and Agricultural Organization (FAO) of the United Nations are working to develop classified versions of both *AGROVOC*, the thesaurus used by FAO for the AGRIS database, and the *CAB Thesaurus*, used by CABI for *CAB Abstracts* and by NAL for *AGRICOLA*. NAL and FAO have signed a letter of agreement to complete the classification of *AGROVOC*. This classification work is the first step in unifying the thesauri.

Another effort focuses on the development of thesaurus management software to support the thesaurus project. The software will be developed in conjunction with the Canadian International Development Research Centre.

## NAL/Land-Grants Cooperate in Adding State Pubs to AGRICOLA

From 1984 through 1992, over 44,500 citations for State-produced agricultural publications were added to NAL's *AGRICOLA* database. This occurred as a result of the cooperation between land-grant universities and NAL in the NAL/Land-Grant University State Agricultural Publications Program. The program has seen significant growth in recent years. In 1990, through the efforts of the University of Florida, the University of Nebraska, and the Massachusetts Institute of Technology (MIT), the program's scope was expanded to include citations for agricultural theses and dissertations in *AGRICOLA*. In 1991, the University of Colorado, Louisiana State University, the University of Maine, the University of Maryland, the University of Minnesota, and the University of New Hampshire joined Florida, Nebraska, and MIT in contributing citations of current research materials. In 1992, the University of Arkansas and the University of Kentucky became participants. In 1993, Ohio State and Texas A&M universities agreed to renew their participation in the Cooperative Cataloging Program.

## NAL Is Site for Sustainable Agriculture Network

Since September 1992, NAL's Alternative Farming Systems Information



Center (AFSIC) has been the site for the central coordinating office for the Sustainable Agriculture Network (SAN). Called SANlink, the office links the widely dispersed personnel and activities of SAN and helps in coordinating sustainable agriculture projects. The office also provides staff support to the Sustainable Agriculture Research and Education (SARE) program, a USDA competitive grants project authorized by the 1990 Farm Bill. SAN is comprised of people from universities, government, businesses and non-profit organizations who produce information on "ecologically based, knowledge-intensive" farming.

### Computer-Assisted Indexing Software Being Evaluated

NAL is evaluating a computer-assisted indexing system that could potentially increase the quantity of indexing records produced for the AGRICOLA database while maintaining current quality standards. The PC-based system under evaluation was created by DataCentralen, Denmark, and is named LINXS (*Library INdexing System*). LINXS was designed to assist the human indexer by examining text and suggesting descriptors from the *CAB Thesaurus* and alphanumeric codes from the *AGRICOLA Subject Category Codes*, two of the most important components of the AGRICOLA record. A report will be available in the fall.

### Multimedia CD-ROM on Ornamental Horticulture

NAL, with the University of Florida Institute for Food and Agricultural Sciences (IFAS) and the Michigan State University Cooperative Extension Service, developed a multimedia CD-ROM on home landscaping. The disc contains information on do-it-yourself landscaping, including 24 landscaping designs to cover just about any yard size and characteristic.

Called "Plant It!-CD," the disc is an interactive multimedia CD-ROM containing information on plants that grow best in the various climate zones of the United States. Nearly 1,000 plants are covered.

A country-wide, 200-site evaluation compared the disc's two interfaces; a DOS interface developed at IFAS and a Windows interface developed at NAL. Preliminary results indicate a preference for the Windows interface. The final evaluation report, to be developed by Michigan State University, will further analyze the results by user groups. The final disc is for sale by IFAS.

### ISIS System Moves Ahead

ISIS, NAL's on-line catalog, continues to grow. As of December 1992, it contained approximately 276,000 indexing records and 528,000 cataloging records. This includes records from the National Arboretum and the Agricultural Research Service Regional Research Center Libraries. By the end of 1993, records created by participants in the National Agricultural Cataloging Network will also be on ISIS. Cooperators in this network include selected land-grant university libraries, the U.S. Geological Survey, and the University of Arkansas' Leflar Law Center.

During the summer, a new version of the VTLS library software will be loaded. This version offers title authority control, increased flexibility in screen design, more advanced search features, and user-definable help screens. When this new version has been installed, NAL will begin to implement online indexing which will permit users to search for journal citations the day after indexing records are created.

The implementation of online indexing brings NAL one step closer to producing the AGRICOLA sale tape via the ISIS system. AGRICOLA sale tape production is presently being done through a separate batch-mode system. Integrating this activity into ISIS will result in significant cost-savings for NAL.

### Image Transfer Considered for Networking Information

NAL, the University of Pittsburgh School of Library and Information Sciences, and Michigan State Cooperative Extension Service are midway through a project to examine the use of images in information retrieval. A test database of 2,000 digitized slides of rare

botanical prints, plus common plant pests and diseases, will be accessed online through a server at Pittsburgh, as well as through CD-ROM distribution.

The first client-server mode will run under Windows (with later clients to be developed by the University of Pittsburgh), allowing interactive access through Internet. A user can search the image database and retrieve the desired digitized photographs in a variety of formats and resolutions. The evaluation will examine the operation of image transfer in a networked environment, the preferred formats and resolutions, and will compare online access with individual workstation access through CD-ROM.

### Optical Scanning Used in Catalog Card Conversion

NAL continues to look to optical scanning as a low-cost, effective means of converting the library's remaining catalog card records into machine-readable form. EKI, Inc., continued to coordinate the scanning of edited shelf list cards by Optiram, Ltd., a British firm. Photocopies of NAL shelflist cards are being annotated by EKI, then scanned by Optiram and converted into the MARC (*MAchine Readable Catalog*) format.

In 1992, NAL received EKI/OCLC tapes for nearly 8,000 of the 15,000 records sent to EKI in 1991. Once the remaining records are received, all of the records will be matched against the Library of Congress authority file and loaded into NAL's online catalog (ISIS), incorporated into AGRICOLA, and added to the OCLC database. Conversion will cost less than \$2 per record.

### Activities Grow for Plant Genome Information Center

NAL's Plant Genome Data and Information Center, established in 1991, convened a database workshop to discuss the nature, goals, and direction for the public access database. Participants included database specialists from such organizations as the University of California, Los Alamos National Laboratory, the National Science Foundation, and USDA's Germplasm Resource Information Network. A model database will soon be available

for evaluation, and it is anticipated that a general database will be available for public access within 3 years.

### **NAL Increases Coverage of Plant Genetics Literature**

In support of USDA's Plant Genome Research Program, NAL's Indexing Branch continues to provide increased coverage of plant genetics literature in AGRICOLA. Since the initiation of the Plant Genome Research Program in 1990, AGRICOLA has accumulated over 15,000 citations of interest to molecular geneticists. This represents an increase of 225 percent in the number of citations added in 1990-91. The percentage of genetics and breeding citations that have full abstracts increased from slightly over 20 percent in 1990 to over 50 percent in 1992.

Over 3,000 citations in AGRICOLA were identified as containing actual molecular sequence data. Efforts continued to enhance access to plant genetics information in AGRICOLA by improving NAL's indexing vocabulary in the subject area.

### **Library Works to Provide Youth Development Information**

NAL's Youth Development Information Center (YDIC) is working with the USDA's Extension Service (ES) and the 4-H Program to identify and make available, in digital format, information on youth development for extension agents. YDIC is also working with the National Collaboration for Youth and the National Society for Fund Raising Executives on projects to improve computer networking for the youth development and resource development communities. Cooperative agreements will allow for more youth development information to be made available and will improve the quality of that information.

The Child, Youth and Family Education and Research Network (CYFERNET) being developed with assistance from YDIC, directly supports USDA's "Youth at Risk" and "Plight of Young Children" initiatives. YDIC staff sit on USDA's "Youth at Risk" task force and, by interacting

with ES staff, are able to identify information for inclusion on CYFERNET. YDIC also works on two other programs of the 4-H program: "Community Cares" and "Strengthening Our Capacity to Care." These programs are funded with foundation grants and in direct support of the "Youth at Risk" initiative.

### **Water Quality Information Available Electronically**

In recent months the amount of water quality information provided over the Water Information Network (WIN) of NAL's electronic bulletin board ALF has increased dramatically. WIN is managed by NAL's Water Quality Information Center (WQIC) which has added approximately twenty new water quality documents to WIN including water quality hotlines; a calendar of upcoming regional, national, and international water quality meetings; and bibliographies covering agriculture's impact on water quality.

### **NAL Helps Extension Service with Commodity Trading Program**

NAL help in gathering information on commodity futures trading has been

requested by USDA's Extension Service (ES) and the Commodity Futures Trading Commission (CFTC). Under the "Commodity Futures Trading, Agricultural Option Pilot Program," ES and CFTC are working to introduce farmers to commodity options as alternative means of generating income. ES and CFTC requested that NAL's Agricultural Trade and Marketing Information Center (ATMIC) expand its scope to include multimedia materials on risk management, futures and options markets, legislation and regulations, commodity trading, and related fields.

### **Study Shows Importance of Information in Research Decisions**


A two-year study shows that national and international information provided by NAL's Technology Transfer Information Center (TTIC) can help government agricultural researchers optimize their efforts. The study by TTIC and the USDA's Agricultural Research Service (ARS) indicates that TTIC information has aided ARS in determining research program direction, patent filing processes, and licensing and marketing options. Cost and time savings have accrued also. 



photo: J. Swab

Secretary of Agriculture Mike Espy greets NAL staff during a recent visit to NAL. (See story in forthcoming ALIN.)





## New Bibliographies

The bibliographies in the *Quick Bibliography* series are primarily computerized online as batch bibliographies emanating from searches performed by the NAL Public Services Division Staff in response to customer requests. Searches are selected for inclusion based on the currency of the topic, interest among clientele, and probable value to a larger audience. Since October 1988, all *QB's* include search strategies. Unless otherwise specified, citations are from AGRICOLA.

The other bibliographic series, including *Special Reference Briefs*, have been researched and produced to meet special needs of clientele of the Library and its Information Centers. Revisions or updates will be announced when produced. Only one copy of a requested title will be sent; however, requesters may make copies. To request a copy of a *Quick Bibliography* or other listed work, circle the desired title(s) below and send your request with a self-addressed label to:

Reference Branch, Room 111  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, MD 20705-2351

### Quick Bibliographies

**Q.B.—93-28.** Wind Energy for Agriculture, January 1985-March 1993. 166 citations in English. Prepared by Susan Chapman. Reference and User Services Branch. April 1993. Updates Q.B. 91-37.

**Q.B.—93-29.** Ethical and Moral Issues Relating to Animals, January 1986-February 1993. 323 citations in English. Prepared by Tim Allen. Animal Welfare Information Center. May 1993. Updates Q.B. 92-51.

**Q.B.—93-30.** Beekeeping in the

United States, January 1981-March 1993. 235 citations in English. Prepared by Carol Kopolow. Reference and User Services Branch. May 1993. Updates Q.B. 90-82.

**Q.B.—93-31.** Regulating Water Quality: Policy, Standards and Laws, January 1991-March 1993. 179 citations; languages: none excluded. Prepared by Joe Makuch and Evelyn Brownlee. Water Quality Information Center. May 1993. Updates Q.B. 91-49.

**Q.B.—93-32.** Riparian Zones and Filter Strips in Agricultural Operations, January 1985-April 1993. 185 citations; languages: none excluded. Prepared by Joe Makuch. Water Quality Information Center. May 1993.

**Q.B.—93-33.** Solar Energy Alternatives for Agriculture, January 1991-April 1993. 354 citations in English. Prepared by Susan Chapman. Reference and User Services Branch. May 1993. Updates Q.B. 91-84.

**Q.B.—93-34.** Biotechnology: Food Science and Technology, January 1991-March 1993. 282 citations; languages: none excluded. Prepared by Lara Wiggert and Robert Warmbrodt. Biotechnology Information Center. May 1993. Updates Q.B. 91-98.

**Q.B.—93-35.** Population Migration in Rural America, January 1980-January 1993. 137 citations in English. Prepared by Patricia La Caille John. Rural Information Center. May 1993. Updates Q.B. 91-40.

**Q.B.—93-36.** Rural America's Elderly, January 1983-January 1993. 256 citations in English. Prepared by Patricia La Caille John. Rural Information Center. May 1993. Updates Q.B. 93-36.

**Q.B. 93—37.** Deforestation, January 1987-April 1993. 311 citations; languages: none excluded. Prepared by Ellen Kay Miller. D.C. Reference Center. May 1993.

**Q.B.—93-38.** Rural Entrepreneurship and Small Business Development, January 1980-January 1993. 295 citations in English. Prepared by Patricia La Caille John. Rural Information Center. June 1993. Updates Q.B. 92-49.

**Q.B. 93-39.** Native American Natural Resource Management, January 1980-January 1993. 85 citations in English. Prepared by Patricia La Caille John. Rural Information Center. June 1993.

**Q.B.—93-40.** Native American Health Care, January 1980-January 1993. 119 citations in English. Prepared by Patricia La Caille John. Rural Information Center. June 1993.

**Q.B.—94-41.** Tissue Culture: Plants, January 1991-April 1993. 229 citations in English. Prepared by Henry Gilbert. Reference and User Services Branch. June 1993. Updates Q.B. 91-62.

**Q.B.—93-42.** Simulation Models of Climate Change, January 1979-April 1993. 140 citations; languages: none excluded. Prepared by Carol A. Singer. D.C. Reference Center. June 1993.

**Q.B.—93-43.** Biotechnology: Plant Nutrition, January 1988-April 1993. 269 citations; languages: none excluded. Prepared by Janet Saunders and Robert Warmbrodt. Biotechnology Information Center. June 1993. Updates Q.B. 91-147.

**Q.B.—93-44.** Population Growth and Food Supply, January 1979-April 1993. 114 citations; languages: none excluded. Prepared by Carol A. Singer. D.C. Reference Center. June 1993.

**Q.B.—93-45.** Agricultural and Farmer Cooperatives, January 1983-March 1993. 164 citations in English. Prepared by Patricia La Caille John.

Rural Information Center. June 1993. Updates Q.B. 92-12.

**Q.B.—93-46.** Careers in Agriculture, January 1989-May 1993. 250 citations in English. Prepared by Susan Chapman. Reference and User Services Branch. June 1993. Updates Q.B. 91-08.

**Q.B.—93-47.** Methyl Bromide, January 1989-April 1993. 97 citations in English. Prepared by Kathie Beane. D.C. Reference Center. June 1993.

**Q.B.—93-48.** Effects of Ozone on Plants, January 1985-April 1993. 164 citations in English. Prepared by Kathie Beane. D.C. Reference Center. June 1993.

**Q.B.—93-49.** Aquaculture Development and Economics, January 1979-April 1993. Prepared by Ann Townsend Young. Aquaculture Information Center. June 1993. Updates Q.B. 90-41.

### Special Reference Briefs

**SRB—93-03.** Seafood Marketing Resources. Prepared by Mary E. Lasanyi. Agricultural Trade and Marketing Information Center. June 1993. 34p.

**SRB—93-04.** Sustainable Agriculture

in Print: Current Books. Prepared by The Alternative Farming Systems Information Center .... May 1993. 34p.

**SRB—93-05.** Selected Resources on Emotional Abuse of Children: An Annotated Bibliography for Researchers, Educators, and Consumers. Prepared by Billie H. Frazier, Karen C. Morgan, and Kathleen C. Hayes. Technology Transfer Information Center. June 1993.

### AWIC Series

**AWIC—11.** Animal Welfare Legislation: Bills and Public Laws, 1992. Prepared by Cynthia Petrie Smith. Animal Welfare Information Center. May 1993. 13p.

### Rural Information Center Publication Series

**R.I.C.P.S.—22.** Innovative Approaches in Rural Education. Compiled by Jonathan Shimmons. Rural Information Center. April 1993. 34p.

**R.I.C.P.S.—23.** Retirement Communities in Rural America. Compiled by Mingzhu Chen. Rural Information Center. April 1993. 36p.

**R.I.C.P.S.—24.** Volunteerism. Compiled by Mel Reader. Rural Information Center. April 1993. 14p.

**R.I.C.P.S.—25.** Downtown Revitalization. Compiled by You You Chen. Rural Information Center. April 1993. 20p.

**R.I.C.P.S.—26.** The Value of Wetlands. Compiled by Christopher McKinnon. Rural Information Center. April 1993. 40p.

**R.I.C.P.S.—27.** Electronic Access to Rural Information: User's Manual for the ALF Bulletin Board. Prepared by Teresa B. Brown. Rural Information Center. May 1993. 20p.

**R.I.C.P.S.—28.** A Guide to Funding Resources. Compiled by Rebecca Thompson. Rural Information Center. June 1993. 32p.

### Miscellaneous

Aquaculture for Youth and Youth Educators. Revised Edition, May 1993. Prepared by Eileen M. McVey. Aquaculture Information Center. May 1993. 35p.

Bibliographic Series Current Titles Listing No. 8. Compiled by Rebecca S. Thompson. Information Centers Branch. April 1993. 26p.

Electronic Sources for Food and Nutrition Information. Prepared by Monika Bussman. Food and Nutrition Information Center. May 1993. 16p.



### New Serials Received at NAL

**ACPA.** [Habana]: Asociación Cubana de Producción Animal. Quarterly. [Año no.] 1 ([jul./sept. 1982])-

**SF17.A862**

**AOS ... Almanac.** West Palm Beach, FL: American Orchid Society. Biennial. 1992-93-

**SB409.A1A43**

**Advances in Bioclimatology.** Berlin; New York: Springer-Verlag. 1- c1992-  
**QH543.A38**

**Advances in Veterinary Dermatology: Proceedings of the ... World Congress of Veterinary Dermatology.** London; Philadelphia: Baillière Tindall. Vol. 1- c1990-

**SF901.W67**

**America's Great Outdoors: Newsletter for the National Recreation Strategy.** Washington, DC: Forest Service. Three times a year. No. 1 (Jan. 1991)-  
**GV191.67.F6A44**

**Annual Report and Summaries of ... Activities / Division of Energy Biosciences.** Washington, DC: U.S. Dept. of Energy, Office of Energy Research, Office of Basic Energy Sciences, Division of Energy Biosciences; Springfield, VA: Available from the National Technical Information Service, U.S. Dept. of Commerce. Annual. FY 1988-  
**TP360.A56**

**Bio-Connection / Michigan Biotechnology Institute.** East Lansing, MI: The



Institute. Semiannual. Winter 1986-  
**TP248.13.B536**

*Biomimetics*. New York: Plenum Press. Quarterly. Vol. 1, no. 1 (Mar. 1992)-  
**R857.M3B56**

*Campo y tecnología: revista de divulgación científica tecnológica del Instituto Nacional de Tecnología Agropecuaria*. Buenos Aires: INTA. Bimonthly. No. 1 (marzo de 1992)-  
**S494.5.I5C34**

*Canadian Environmental Directory*. Toronto: Canadian Almanac & Directory Pub. Co. Annual. 1991-  
**GE1.C36**

*Cornell Focus: A Publication of Cornell University's College of Agriculture and Life Sciences*. [Geneva, NY]: New York State Agricultural Experiment Station at Geneva; Ithaca, NY: Cornell University Experiment Station at Ithaca; College of Agriculture and Life Sciences at Cornell University. Three no. a year. Vol. 1, no. 1-S95.C69

*Corporate Report / Australian Museum*. Sydney: The Museum. Annual. 1988/89-  
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*Country Report*. South Korea, North Korea / The Economist Intelligence Unit. London: The Unit. Quarterly. 1993, no. 1-  
**HC466.A1Q35**

*County and City Extra: Annual Metro, City, and County Data Book*. Lanham, MD: Bernan Press. Annual. 1992-  
**HA203.C68**

*Directory of the Wood Products Industry*. San Francisco: Miller Freeman, Inc. Annual. 1993-  
**HD9753.D57**

*Environmental Executive Directory*. Washington, DC: Carroll Pub. Co. Annual. 1993-  
**TD169.6.E588**

*Environmental Viewpoints: Selected Essays and Excerpts on Issues in Environmental Protection*. Detroit: Gale

Research, Inc. Vol. 1- c1992-  
**TD169.E658**

*European Journal of Agronomy: The Journal of the European Society for Agronomy*. Montrouge Cedex, France: Gauthier-Villars. Quarterly. Vol. 1, no. 1- 1992-  
**SB13.E97**

*FAO Aquaculture Newsletter*. Rome: Inland Water Resources and Aquaculture Service, Fisheries Dept., Food .. Food and Agriculture Organization of the United Nations. Semiannual. No. 1 (June 1992)-  
**SH1.F662**

*Gartenbau Magazin*. Braunschweig: Verlag B. Thalacker. Monthly. 1. Jahrg., Nr. 1/2 (Jan./Feb. 1992)-  
**SB10.G37**

*Gartenbautechnische Informationen*. Hannover: Institut für Technik in Gartenbau und Landwirtschaft, TU. Irregular. Heft 1- 1974-  
**SB10.G35**

*Gene Expression*. North Chicago, IL: Chicago Medical School Press. Monthly. Vol. 1, no. 1 (Apr. 1991)-  
**QH450.G465**

*Green Globe Yearbook: An Independent Publication on Environment and Development from the Fridtjof Nansen Institute, Norway*. Oxford; New York: Oxford University Press. Annual. 1992-  
**HC79.E5G74**

*Horticulture Today*. Auckland, N.Z.: Percival Pub. Monthly. Vol. 1, no. 2 (Nov./Dec.) 1991-  
**SB1.H67**

*Hungarian Economic Review: HER*. Budapest, Hungary: FORKA Communications Ltd. Bimonthly. Vol. 1, no. 1 (Apr. 1991)-  
**HF37.H8H8**

*In Review / Inter-American Foundation*. Arlington, VA: The Foundation. Annual. 1991-  
**HC121.I57**

*Institute for Animal Health: [annual*

*report]*. Compton, Newbury, Berkshire, England: The Institute. Annual. 1991-  
**SF601.I57**

*Journal of College & University Foodservice*. Binghamton, NY: Food Products Press. Quarterly. Vol. 1, no. 1- 1993-  
**TX901.J68**

*Journal of Veterinary Emergency and Critical Care*. Santa Barbara, CA: Veterinary Practice Pub. Semiannual. Vol. 1, no. 1 (Jan.-June 1991)-  
**SF778.J68**

*Liste mondiale des périodiques spécialisés dans les sciences sociales = World List of Social Science Periodicals*. [Paris]: UNESCO. Irregular. [1re éd.] (1953)-  
**Z7163.L523**

*Memoirs of the Faculty of Science, Kochi University*. Series D, Biology. Kochi, Japan: Dept. of Biology, Faculty of Science, Kochi University. Annual. Vol. 1 (1980)-  
**QH301.M46**

*New York Vineyard Survey*. Albany, NY: New York Agricultural Statistics Service. 1990-  
**SB354.5.N4**

*Newsline / Oceanic Institute*. Honolulu, HI: The Institute. Four no. a year. [Vol. 1, no. 1] (July 1988)-  
**SH1.N48**

*Northeast LISA Apple Production Newsletter / Compiled by the Cooperators of the Five-State LISA Apple Production Project, Cornell, Massachusetts, Rodale, Rutgers, Vermont*. Amherst, MA: The Project. Two no. a year. Vol. 1, no. 2 (Oct. 1990)-  
**SB363.N67**

*North Dakota Pesticide Quarterly / Cooperative Extension Service, North Dakota State University*. Fargo, ND: The Service. Vol. 1, no. 1 (Jan. 1983)-  
**SB950.9.N67**

*NVSL Newsletter*. Ames, IA: National Veterinary Services Laboratories, USDA, APHIS, VS. Three times a year. Issue no. 1 (Sept.

1991)-  
SF601.N87

*Parasitologia Hungarica*. Budapest: Magyar Parazitológusok Társaság: Természettudományi Múzeum. Tomus 1, köt. 1- Annual. [1968]-  
QL757.P3722

*Québec's Forest Resources and Industry*. [Québec]: Gouvernement du Québec, Ministère de l'énergie et des ressources. Annual. 1985 ed.-  
HD9764.Q3Q42

*Répertoire mondial des institutions de sciences sociales établi par le Centre de documentation en sciences sociales de l'Unesco = World Directory of Social Science Institutions Prepared by the Unesco Social Science Documentation Centre*. Paris: UNESCO. [1977]-  
H62.A1R46

*Report of the Veterinary Research Laboratory*. Dublin: Stationery Office. Biennial. 1975 and 1976-  
SF663.A25

*Research Paper*. Sydney: Forestry Commission of N.S.W. No. 1- 1982-  
SD244.N4R48

*Review of Financial Economics: RFE*. New Orleans, LA: Division of Business and Economic Research, College of Business Administration, University of New Orleans. Semianual. Vol. 1, no. 1 (Fall 1991)-  
HF5001.R48

*Revista do café*. Rio de Janeiro, RJ: Centro do Comércio de Café do Rio de Janeiro. Bimonthly. Agosto/set. 1991-  
HD9199.B6R4

*Small Business Sourcebook*. De-

troit, MI: Gale Research Co. Annual, 1991-; Biennial, 1983-1991. 1st ed.-  
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*Stockholm Water Front*. Stockholm: Stockholm Water Ltd. Four no. a year. Issue no. 1 (Feb. 1992)-  
TD419.S76

*Structural Pest Control Bulletin / North Carolina Department of Agriculture*. Raleigh, NC: Structural Pest Control Division. Quarterly. Vol. 1, issue 1 (winter 1990)-  
SB950.A1S77

*Weed Control in Field and Forage Crops*. [Regina]: Saskatchewan Agriculture and Food. Annual. 1991-  
SB951.4.C5



**Publications  
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## Serial Gaps

The National Agricultural Library identifies gaps in the national collection through collection maintenance activities and patron requests. We would appreciate your donation of the following publications needed to complete NAL collections. If you have questions, contact Jeff Maier, (301) 504-5208, [TTY (301) 504-6856]; FAX (301) 504-5471; or INTERNET: jmaier@nalusda.gov

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*Acta Mycologica*. Vol. 18 (2), 1982-

*Archiv für Tierernährung*. Archives

of Animal Nutrition. Vol. 38 (11), 1988.

*Food and Agricultural Legislation*. FAO. Vol. 36 (2), 1987.

*Gendai Nogyo*. 1989 (6).

*Hormones and Behavior*. 1983, no. 17; 1984, no. 18.

*Journal of Eastern African Research and Development*. Vol. 16, 1986; Vol. 18, 1988.

*Journal of Histochemistry and Cytochemistry*. Vol. 33 (3), 1985.

*Nordisk Jordbruksforskning*. Vol. 69 (1-4), 1987; Vol. 70 (1-3), 1988.

*Planter*. Vol. 61 (708), 1985.

## Surplus Publications

The National Agricultural Library will provide the following surplus publications to any interested organization that regularly sends free publications to NAL, including most Federal, land-grant, and agricultural research institutions, and foreign exchange partners. Titles not requested will be purged six months after the initial listing.

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FAX (301) 504-5471; or  
INTERNET: jmaier@nalusda.gov

*Canadian Journal of Soil Science*. Vol. 46-52, 1966-72; and Vol. 56-70, 1976-90.

*Journal of Environmental Quality*. Vol. 2-21, 1973-92.

*Journal of Soil & Water Conservation*. Vol. 37-46, 1982-91.





## Agriculture Datebook

Meetings included in this list are selected from USDA's *Ag Calendar* and information provided by NAL information centers, federal and state agencies, associations, and interest groups. Normally, items are listed only once, as soon as practical after receipt. Inclusion does not constitute endorsement by NAL or USDA. Please send items for consideration to:

*National Agricultural Library  
ALIN Editor, Room 204  
10301 Baltimore Boulevard  
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**August 19-22: ARABIFLORA: The 5th International Congress on Arabidopsis Research.** Columbus, OH; Ohio State University. Contact: Roger Hangarter, (hangarter.1@osu.edu), Keith Davis (davis.68@osu.edu), Ken Feldmann (feldmann@ccit.arizona.edu), or Randy Scholl (scholl.1@osu.edu).

**August 12-15: 2nd International Master Gardener Conference and Trade Show.** San Antonio, TX; Rivercenter Marriott. Contact: Bonnie Hammett, 210-228-0417.

**August 15-18: Third North American Agroforestry Conference.** Ames, IA; Iowa State University. Contact: Richard Schultz, 515-294-7602.

**August 18-20: Performance Standards for Research with Genetically Modified Fish and Shellfish.** Minneapolis, MN. Contact: Maryln Cordle, 703-235-4419; FAX 703-235-4429.

**August 23-27: Creating A Forestry for the 21st Century Symposium.** Portland, OR. Contact: 202-205-1491 or 202-205-1661.

**August 24-28: Aquaculture Canada**

**'93.** Charlottetown, PEI, Canada. Contact: Irwin Judson, 902-368-5525; FAX 902-368-5542.

**August 26-September 4: American Fisheries Society.** Portland, OR. Contact: AFS, 301-897-8616.

**August 28-September 3: Fifteenth International Botanical Congress.** Tokyo, Japan. Contact: Fifteenth International Botanical Congress, c/o International Botanical Communications, Inc., Kasho Building 2F, 2-14-9 Nihombashi, Chuo-ku, Tokyo 103, Japan.

**August 28-September 3: The 123rd Annual Meeting of American Fisheries Society.** Portland, OR. Contact: Paul

Brouha, 301-897-8616; FAX: 301-897-8096.

**August 30-September 1: Aquaculture and Marine Environment: The Shaping of Public Policy.** Woods Hole, MA. Contact: Harlyn Halvorson, 508-540-1030; FAX: 508-540-5441.

**August 31-September 2: Incorporating Haztech International, The Third Annual Environmental Educational Conference and Buyer's Exhibition.** West Galleria, Houston, TX. Contact: Bob Frederick, 301-986-7800; Fax: 301-986-4538; Telex:4944944EJK EXPO.

**August 31-September 4: Association of Avian Veterinarians, 14 AV Annual Conference.** Nashville, TN. Contact: 303-756-8380.

**September: International Conference on "Experience of Integrated Resource Management (IRM) for Sustainable Agriculture."** Beijing, China. Contact: Shu Geng, 916-752-6939.

**September 1-9: XXIII International Ethological Conference.** Torremolinas, Spain. Contact: 9-57-480478.

## Comments on Agriculture Datebook Desired

*ALIN* readers' comments on the usefulness of the "Agriculture Datebook" column are desired. The editor would like to know who uses the information, for what purposes it is used, whether or not the dates appear early enough or too late. Would the column be missed if dropped? Would readers who would miss it be able to use NAL's electronic bulletin board, ALF, as a source instead? Do readers use ALF now, and if so do they find the separate listings for USDA's "Ag Calendar" and NAL's various information centers satisfactory, or would they prefer all of the listings in one file? Does it matter that all of the various listings in ALF are in different formats instead of one format as in *ALIN*?

Send a message by Internet: jswab@nalusda.gov

FAX: (301) 504-5472

NAL TTY: (301) 504-6856

Or write to:

*ALIN* Editor, Room 204

*National Agricultural Library*

*10301 Baltimore Boulevard*

*Beltsville, Maryland 20705-2351*

Or leave a message to the Sysop (Systems operator) Karl Schneider on ALF: (301) 504-6510, 504-5111, 504-5496, or 504-5497.

**September 4-8: International Symposium on Aquatic Animal Health.** Seattle, WA. Contact: Lorna McAdam, U. of California.

**September 5-9: Sixth International Conference on Diseases of Fish and Shellfish.** Brest, France. Contact: Eva-Maria Bernoth, FAX: 011493070763514.

**September 5-10: 9th Triennial International Symposium on Biodeterioration and Biodegradation.** Leeds, UK. Contact: Conference Secretary, Department of Chemical Engineering, University of Leeds, Leeds LS2 9JT, UK.

**September 6-9: CARP.** Budapest, Hungary. Contact: G. van der Linden, 310540763716; FAX: 310540764456.

**September 6-11: 2nd Annual International Symposium on the Sturgeon.** Moscow -Kostroma. Contact: A.D. Gershanovich, FAX: 70952649187.

**September 7-9: Biotechnology - Ethics, Public Perception and Legal Matters.** Kuopio, Finland. Contact: Mobito In Secretariat, Center for Training and Development, University of Kuopio, P.O. Box 1627, 70211 Kuopio, Finland. Phone: +358-71-163915; FAX: +358-71-163903; Telex: 42218 kuv sf.

**September 7-9: 3rd International Federation of Organic Agriculture Movements Conference.** Baltimore, MD; Convention Center. Contact: Karen Weinzierl, 303-939-8440.

**September 9-11: 2nd International Congress on Peer Review in Biomedical Publication.** Chicago, IL. Contact: Annette Flanagan, 312-464-2432.

**September 12-16: Symposium on Improvement of Cereal Quality by Genetic Engineering: 43rd Australian Cereal Chemistry Conference.** Coogee Beach, Sydney, Australia. Contact: R. Henry, Cereal Chemistry Division RACI, Queensland Agricultural Biotechnology Centre, Gehrmann Laboratories, University of Queensland 4067. Phone: 07-3654962; FAX: 07-3654980.

**September 12-15: Pacific Region Conference of Conservation Districts.** Minden, NV. Contact: 202-720-3631.

**September 12-16: AAZPA Annual Conference.** Omaha, NE. Contact: Randy Wisthoff, 402-733-8401.

**September 12-16: National Association of State Foresters Annual**

**Meeting.** Bar Harbor, ME. Contact: 202-205-1661.

**September 12-25: Gene Transfer to Plants Course.** Zurich, Switzerland. Contact: Mr. I Potrykus, Institute for Plant Sciences, ETH Zentrum, LFW, Universitäts strasse 2, Zurich, CH 8092, Switzerland.

**September 13-17: Food Distribution Management Evaluation Meeting.** Denver, CO. Contact: Ursula Key, 703-305-2660.

**September 13-17: Issues in Agricultural Bioethics.** Loughborough, UK. Contact: B. Mephram, Univ. of Nottingham, Sutton Bonington Campus, Loughborough, LE12 5RD, UK, Phone: 0602-516303; FAX: 0602-516302.

**September 13-17: 24th Annual Meeting of the European Society for New Methods in Agricultural Research.** Leipzig, Germany. Contact: Wye College, D.A. Baker, Dept. of

## Agricultural Calendars on ALF

In addition to the dates given in this "Agriculture Datebook" column of *ALIN*, one can find a number of listings of meetings or calendar items in ALF, NAL's electronic bulletin board. The relevant information for finding them on the bulletin board follows:

### I. The calendars on ALF are:

Filename	Info Center/Source	Directory on ALF
CALENDAR.FNE	Food & Nutrition	FNICPUBS
AGCAL'93.TXT	USDA	General
AQUACAL.TXT	Aquaculture	General
SUSAGCAL.TXT	Alternative Farming Systems	AFS

### II. The following bulletins in subboards are also calendars:

WINBUL3.	In Water subboard.
WSRDCB#.	In RIC subboard. There are several of these bulletins, each containing an issue of RIC's newsletter <i>Update</i> and its calendar. For example, WSRDCB5.
FOODB6.	In the Food subboard. This is a two-month version of CALENDAR.FNE.
AFSBUL3.	In the AFS subboard. This is the same as SUSAGCAL.TXT.

### III. There are also newsletters on ALF that may contain calendar information, including:

AWFNWS#.#	(where # = vol. + no.) In Animal Directory. <i>Animal Welfare Information Center Newsletter</i>
PROBE#.#	(where # = vol. + no.) In General Directory. <i>Probe</i> is the newsletter of the Plant Genome Data and Information Center.
VIGN####.TXT	(where #### = month + year) In General Directory. <i>Vignettes</i> is the newsletter of the Agricultural Trade and Marketing Information Center.

Access to ALF is via these telephone numbers: (301) 504-6510, 504-5111, 504-5496, or 504-5497.

To obtain more information about ALF or to contact the ALF Systems Operator, call Karl Schneider at (301) 504-5113; NAL TTY: (301) 504-6856; Internet: kschneider@nalusda.gov; FAX: (301) 504-7098.

Or write to:

Karl Schneider, ALF SYSOP  
Reference Branch, Room 111  
National Agricultural Library  
10301 Baltimore Boulevard  
Beltsville, Maryland 20705-2351



Biochemistry, Ashford, Kent TN25 5AH, UK.

**September 14-18: The Sixth National Urban Forest Conference.** Minneapolis/St. Paul, MN. Contact: NUFC, P.O. Box 2000, Washington, DC 20013-2000.

**September 15-17: Agricultural and Environmental Biotechnology.** Torino, Italy. Contact: Dr. E. Spoldi, Fondazione per le Biotecnologie, Villa Gualino, V.le Settimio Severo 63, Torino, I-10133, Italy. Phone: 116600187; FAX: 116600187.

**September 15-19: Icelandic Fisheries Exhibition.** Reykjavik, Iceland. Contact: Patricia Foster, Phone: 44819489800; FAX: 44819489870.

**September 16-17: Agricultural Research Institute Annual Meeting.** McLean Hilton, McLean, VA. Contact: ARI Office, 301-530-7022.

**September 16-19: American Association of Bovine Practitioners, 26th Annual Conference.** Albuquerque, NM. Contact: Samuel Hutchins, DVM, 802-476-6555.

**September 16-20: International Symposium on Shrimp Culture in Asia-Pacific Region.** Beijing, People's Republic of China. Contact: Cui He, 0118616020794; FAX: 0118616012808.

**September 17-21: Modulators of Fish Immune Responses.** Breckenridge, CO. Contact: Joanne Stolen, 908-530-3199; FAX: 908-530-5896.

**September 19-22: American Association of Food Stamp Directors.** New Orleans, LA. Contact: 202-682-0100.

**September 19-22: 2nd National Symposium on PLANAR CHROMATOGRAPHY: Modern Thin-Layer Chromatography.** Research Triangle Park, NC. Contact: 301-898-3772; FAX: 301-898-5596.

**September 20-24: 11th Australian Biotechnology Association Conference.** Perth, Australia. Contact: Judy Sargeant, Murdoch University, School of Biological and Environmental Sciences, Murdoch, Perth, WA 6150, Australia.

**September 20-24: 1st International Conference on Diffuse (Nonpoint) Pollution: Sources, Prevention, Impact, and Abatement.** Chicago, IL. Contact: IAWPRC, c/o Dr. Vladimir Novotny, Department of Civil and Environmental Engineering, Marquette

University, 1515 W. Wisconsin Ave., Milwaukee, WI 53233.

**September 21-24: Scale-Up Strategies for Animal Cell Culture Workshop.** Penn State Univ, PA. Contact: Ms Patricia Phillips, 800-833-5533.

**September 22-24: Farm Science Review.** London, OH. Contact: R. Craig Fendrick, 614-292-4278.

**September 24-25: 30th Anniversary of Pinchot Institute for Conservation.** Milford, PA. Contact: 202-205-1661.

**September 25-30: Advanced Industrial Bioprocessing.** University Park Holiday Inn, Fort Collins, CO. Contact: M. Nazmul Karim, or Dan Dykstra, 303-491-6779 or 303-491-6222; FAX: 303-491-0667.

**September 26: 11th National Conference on Rural and Intercity Public Transportation.** Park City, UT. Contact: 202-334-2934.

**September 28-30: Southeastern Regional Symposium.** Myrtle Beach, SC. Contact: Solid Waste Association of North America, 301-585-2898.

**September 30: Newspaper Food Editors and Writers Association: Food Safety Update.** Dallas, TX. Contact: 202-720-7025.

**October 4-7: Sixth International Symposium on Fish Nutrition and Feeding.** Hobart, Tasmania. Contact: K. Leong Wee, Phone: 61003243538; FAX: 61003243236.

**October 4-8: International Symposium on the Ecological Effects of Arctic Airborne Contaminants.** Reykjavik, Iceland. Contact: Ms. Steward, 301-770-3153; FAX: 301-468-2245.

**October 5-6: Meat Industry Research Conference.** Chicago, IL; The Palmer House. Contact: 703-841-2400.

**October 5-7: 3rd International Kyusei Nature Farming conference, "Nature Farming for a Sustainable Agriculture."** Santa Barbara, CA. Contact: Susan Randall, 805-737-1536.

**October 5-17: Third International Conference Kyusei Nature Farming.** Santa Barbara, CA. Contact: 202-720-3631.

**October 6-8: National Broiler Council Annual Conference.** Washington, DC; Loew's L'Enfant Plaza Hotel. Contact: 202-296-2622.

**October 6-8: U.S. Trout Farmers Association Annual Meeting and Trade Show.** Duluth, MN. Contact:

Joe McCraren, 304-876-6666; FAX: 304-876-0946.

**October 7-8: The 1993 Catfish Processing and Feed Conference.** Greenwood, MS. Contact: The Catfish Journal, 601-956-6702; FAX: 601-956-4047.

**October 7-10: American Meat Institute's International Convention and Expo.** Chicago, IL. Contact: 703-841-2400.

**October 9-14: ANUGA 93.** Cologne, Germany. Contact: USDA/FAS, 202-720-3425; FAX: 202-690-4374.

**October 10-13: The Seventh Annual Food Marketing Institute Seafood Merchandising Conference.** New Orleans, LA. Contact: Tony Spleen, 202-452-8444; FAX: 202-429-4519.

**October 10-15: American Association of Zookeepers.** Atlanta, GA. Contact: 913-272-5821.

**October 11-12: International Conference on Strategic Business Information in Biotechnology.** Research Triangle Park, NC. Contact: Institute for Biotechnology Information, 919-549-8880, FAX: 919-990-952.

**October 11-14: DNA Sequencing.** Lake Tahoe, NV. Contact: Center for Advanced Training in Cell and Molecular Biology, 202-319-6161; FAX: 202-319-4467 and 202-319-5721.

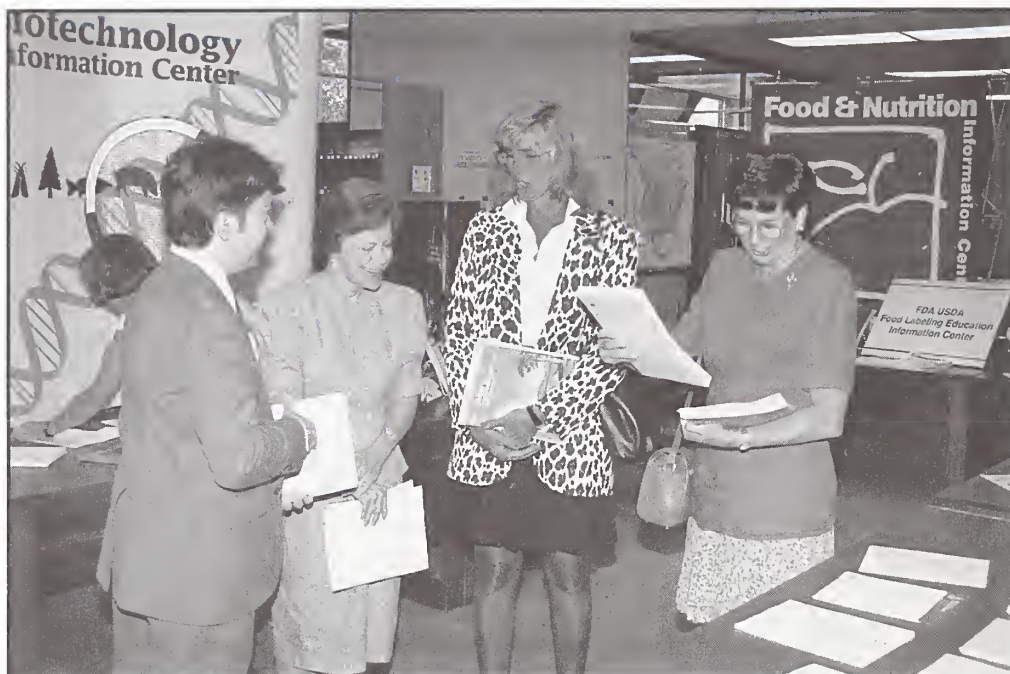
**October 11-14: PCR Techniques.** Lake Tahoe, NV. Contact: Center for Advanced Training in Cell and Molecular Biology, 202-319-6161; FAX: 202-319-4467 and 202-319-5721.

**October 11-14: Recombinant DNA Methodology.** Lake Tahoe, NV. Contact: Director, Center for Advanced Training in Cell and Molecular Biology, 202-319-6161; FAX: 202-319-4467 and 202-319-5721.

**October 11-15: 4th International Lion-tailed Macaque Symposium.** Madras, India. Contact: Registrar, CBSG-India, Box 1683, Peelamedu, Coimbatore, Tamil Nadu, India, FAX: 91-422-572-123.

**October 28-30: 3rd USAIN Annual Conference: "Rural Information at the Crossroads: Issues and Opportunities."** Auburn, AL; Auburn University Hotel & Conference Center. Contact: JoAnn DeVries, 612-624-7446; FAX: 612-624-9245; Bitnet:j-devr@uminn1; Internet:j-devr@vm1.spcs.umn.edu.

# NAL Celebrates Its 3,000,000th AGRICOLA Record



Important aspects of the celebration of the 3 millionth record in AGRICOLA were demonstrations of the database, NAL's new technology for information products and services, and the Library's 11 information centers. Here (L-R) Joseph Makuch, Coordinator of NAL's Water Quality Information Center answers questions from Mae Clark, visiting Associate University Librarian from the University of Florida, Gainesville; and Eve Young and Suzanne Farmer, from Congressman Pete Peterson's Office (Democrat, 2nd District, Florida; Agriculture Appropriations Committee).



For story on the celebration of the 3 millionth record in AGRICOLA, see pages 16-17 of this issue of *ALIN*.

## AGRICULTURAL LIBRARIES INFORMATION NOTES (ISSN 0095-2699)

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Joseph N. Swab, Editor

Idalia Acosta, New Serials Editor; Shirley L. Evans, Agriculture Datebook and New Bibliographies Editor; Jeff Maier, Publications Exchange Editor; Daniel Starr, Photographer.

ALIN, (301) 504-7937; NAL TTY (301) 504-6856;

FAX: (301) 504-5472; FTS2000: !a12jswab

Internet: jswab@nalusda.gov

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